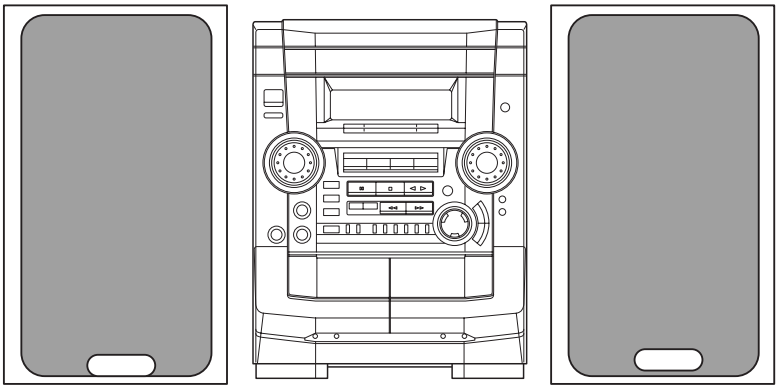
aiwa SERVICE

XR-DV526 U



SERVICE MANUAL

DVD STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-3 YPR1NF
BASIC DVD MECHANISM : AZG-D ZAAPA

SYSTEM	CD CASSEIVER	SPEAKERS	REMOTE CONTROLLER
XR–DV526	CX–NDV526	SX–WNDV526 SX–R275 SX–C605	RC–AAS03

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” (S/M Code No. 09-007-434-1T1).
- If requiring information about the DVD mechanism, see Service Manual of AZG-D, (S/M Code No. 09-00A-350-6N2).

aiwa

S/M Code No. 09-00A-434-1R1

REVISION DATA

SPECIFICATIONS

Main unit CX-NDV526

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output	25 W + 25 W (200 Hz – 20 kHz, THD less than 1 %, 8 ohms)
Total harmonic distortion	0.1 % (15 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output	75 W + 75 W (50 Hz – 200 Hz, THD less than 1 %, 6 ohms)
Total harmonic distortion	0.1 % (40 W, 130 Hz, 6 ohms, DIN AUDIO) **Rear (Surround)** 25 W + 25 W (1 kHz, THD less than 1 %, 8 ohms) **Center** 25 W (1 kHz, THD less than 1 %, 8 ohms)
Inputs	VIDEO/AUX: 300 mV (adjustable) MIC: 1.0 mV (10 k ohms)
Outputs	SPEAKERS HIGH FREQ: accept speakers of 8 ohms or more SPEAKERS LOW FREQ: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms CENTER SPEAKER: accept speakers of 8 ohms or more SUB WOORER: 1.1 V DIGITAL AUDIO OUT (OPTICAL) PHONES (stereo jack): accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	DECK 1: Playback head x 1 DECK 2: Recording/playback head x 1, erase head x 1

<Disc player section>

Laser	Semiconductor laser (λ =780 nm)
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Signal format	NTSC
Supported discs	DVD video discs 12 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) Compact discs (CD-DA, CD-R, CD-RW, video CD) 12 cm and 8 cm discs
S-VIDEO OUT	Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p
VIDEO OUT	Video composit output 1 Vp-p (75 ohms, sync negative) One RCA jack
Operating conditions	5 °C to 35 °C (41 °F to 95 °F)

<General>

Power requirements	120 V AC, 60 Hz
Power consumption	240 W
Power consumption in standby mode	If the power-economizing mode is ECO OFF: 40 W If the power-economizing mode is ECO ON or ECO AUTO: 0.9 W
Dimensions	260 x 326 x 345 mm
(W x H x D)	(10 1/4 x 12 7/8 x 13 5/8 in.)
Weight	12.5 kg (27 lbs 9 oz.)

Speaker system SX-WNDV526

Speaker system	3 way, Built-in subwoofer (magnetic shielded type)
Speaker units	Subwoofer: 160 mm (6 3/8 in.) cone type Full range: 100 mm (4 in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type
Impedance	6 ohms/8 ohms
Sensitivity	87 dB/W/m
Dimensions	240 x 324 x 270 mm
(W x H x D)	(9 1/2 x 12 7/8 x 10 3/4 in.)
Weight	4.8 kg (10 lbs 9 oz.)

• Design and specifications are subject to change without notice.

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• Manufactured under license from Dolby Laboratories Licensing Corporation.
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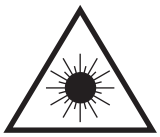
• Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other worldwide patents issued and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. ©1996 Digital Theater systems, Inc. All rights reserved.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

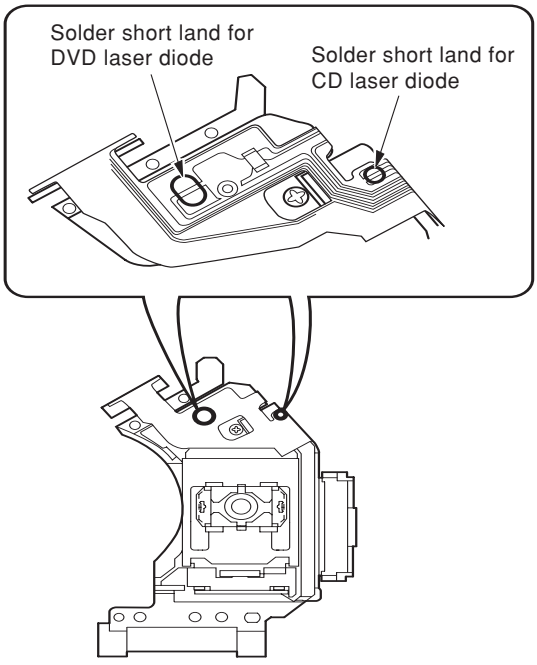
Precaution to replace Optical block

(SF – HD3AV)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICKUP Assy PWB



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

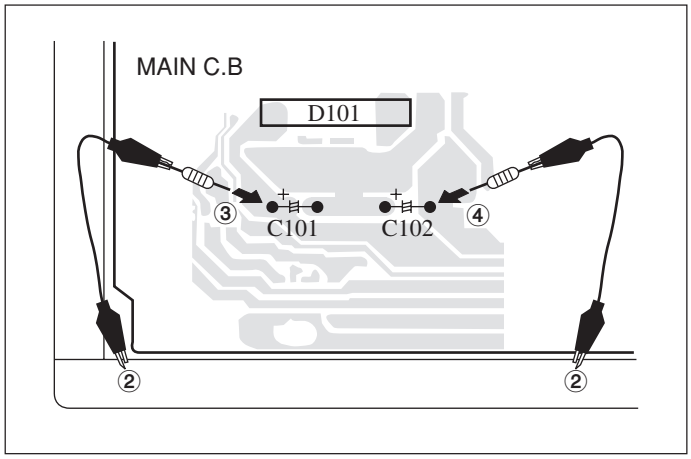


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

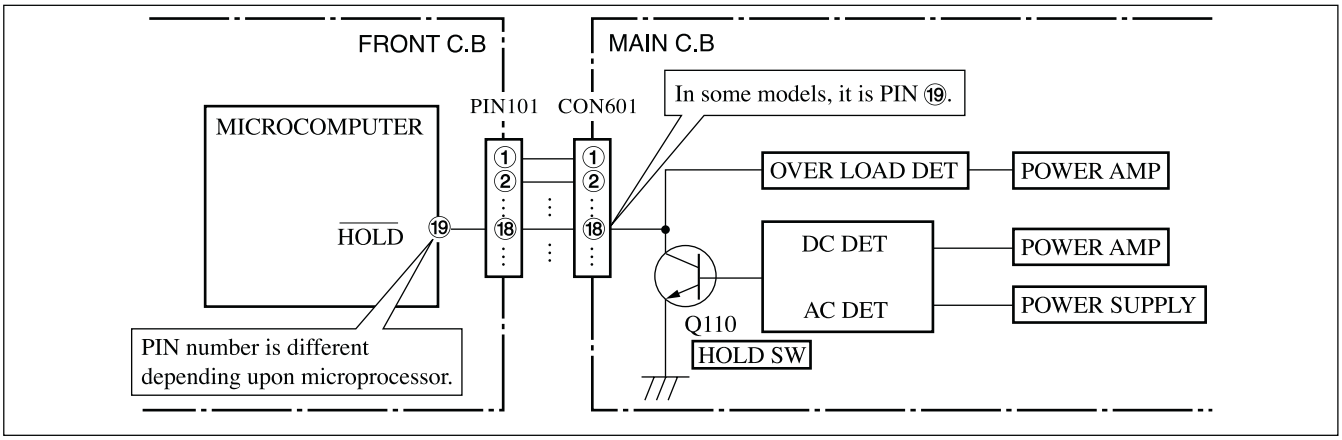


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

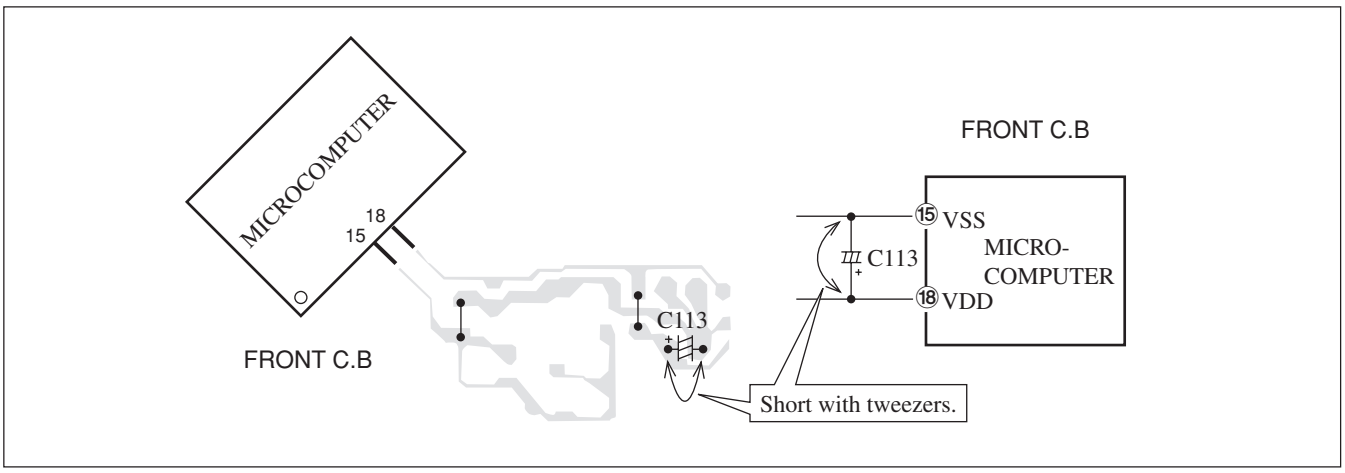


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-269-010		IC,EW732
	87-A21-396-010		IC,STK490-040
	87-A21-398-010		IC,STK490-110
	8A-DJV-610-030		C-IC,LC87F65C8G-SAN1
	87-A21-629-010		IC,SPS-442-1-N
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-097-040		C-IC,M62463AFP
	87-A21-015-040		C-IC,M62491FP
	87-A21-577-040		C-IC,M61506FP
	87-A21-452-030		C-IC,BD3876KS2
	87-070-289-040		C-IC,BU2092F
	87-A21-560-010		IC,LA1844L-A
	87-070-127-110		IC,LC72131 D
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-A30-198-080		TR,KTC3199GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	89-213-702-010		TR,2SB1370E
	87-026-210-040		C-TR,DTC144EK
	87-A30-107-070		C-TR,CMBT5401
	87-A30-269-040		C-FET,2SJ461-T1
	87-A30-106-040		C-TR,CMBT5551
	87-A30-190-080		TR,CC5551
	87-A30-087-080		C-FET,2SK2158
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-495-080		TR,2SA1981Y
	87-A30-329-080		TR,CD1585BC
	87-A30-073-080		C-TR,RT1N141C
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-202-080		C-TR,RT1P441C
	89-327-143-080		C-TR,2SC2714O
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-839-090		DIODE,G5SBA60L-6088
	87-A40-224-010		DIODE,GBU8DL
	87-020-465-080		DIODE,1SS133
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-776-080		ZENER,UZ27BSD
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ16BSA
	87-017-495-080		DIODE,1N5393
	87-A40-754-080		ZENER,UZ6.8BSC
	87-A40-752-080		ZENER,UZ6.2BSC
	87-A40-760-080		ZENER,UZ9.1BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-802-080		ZENER,UZ5.1BSC
	87-A40-745-080		ZENER,UZ4.7BSA
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C21	87-016-658-000		CAP,E 4700-35 M SMG
C22	87-016-658-000		CAP,E 4700-35 M SMG
C25	87-010-406-080		CAP,ELECT 22-50
C26	87-010-406-080		CAP,ELECT 22-50
C27	87-010-406-080		CAP,ELECT 22-50
C28	87-010-406-080		CAP,ELECT 22-50
C31	87-010-263-080		CAP,ELECT 100-10V
C32	87-010-197-080		CAP,CHIP 0.01 DM
C33	87-010-263-080		CAP,ELECT 100-10V
C34	87-010-260-080		CAP,ELECT 47-25V
C35	87-010-380-080		CAP,ELECT 47-16V
C36	87-010-381-080		CAP,ELECT 330-16V
C38	87-010-409-080		CAP,E 220-50 SME
C39	87-010-409-080		CAP,E 220-50 SME
C40	87-010-197-080		CAP,CHIP 0.01 DM
C60	87-010-403-080		CAP,ELECT 3.3-50V
C80	87-010-401-080		CAP,ELECT 1-50V
C81	87-010-383-080		CAP,ELECT 33-25V
C82	87-010-260-080		CAP,ELECT 47-25V
C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-545-080		CAP,ELECT 0.22-50V
C112	87-010-545-080		CAP,ELECT 0.22-50V
C113	87-010-545-080		CAP,ELECT 0.22-50V
C114	87-010-545-080		CAP,ELECT 0.22-50V
C115	87-010-546-080		CAP,ELECT 0.33-50V
C116	87-010-546-080		CAP,ELECT 0.33-50V
C121	87-010-546-080		CAP,ELECT 0.33-50V
C122	87-010-546-080		CAP,ELECT 0.33-50V
C163	87-010-196-080		CHIP CAPACITOR,0.1-25
C171	87-012-368-080		C-CAP,S 0.1-50 F
C172	87-012-368-080		C-CAP,S 0.1-50 F
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-157-080		C-CAP,S 330P-50 CH
C306	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP,CHIP 0.022
C312	87-010-198-080		CAP,CHIP 0.022
C313	87-010-180-080		C-CAP,S 1500P
C314	87-010-180-080		C-CAP,S 1500P
C315	87-010-182-080		C-CAP,S 2200P-50 B
C316	87-010-182-080		C-CAP,S 2200P-50 B
C321	87-012-142-080		CAP,S 0.33-16
C322	87-012-142-080		CAP,S 0.33-16
C324	87-010-260-080		CAP,ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP,ELECT 4.7-50V
C328	87-010-404-080		CAP,ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP,ELECT 1-50V
C336	87-010-401-080		CAP,ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		C-CAP,S 470P
C352	87-012-140-080		C-CAP,S 470P
C354	87-010-175-080		C-CAP,S 560P
C355	87-010-178-080		CHIP CAP,S 1000P
C356	87-010-260-080		CAP,ELECT 47-25V
C357	87-010-197-080		CAP,CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-A11-177-080		C-CAP,S 0.15-16 K B
C374	87-A11-177-080		C-CAP,S 0.15-16 K B
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP,ELECT 22-25V
C380	87-010-382-080		CAP,ELECT 22-25V
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-012-156-080		C-CAP,S 220P-50 CH
C391	87-010-319-080		C-CAP,S 56P-50 CH
C392	87-010-319-080		C-CAP,S 56P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
C401	87-010-176-080		C-CAP,S 680P-50 SL
C402	87-010-176-080		C-CAP,S 680P-50 SL
C403	87-010-958-080		CHIP-CAP,S 0.01-25BJ
C404	87-010-958-080		CHIP-CAP,S 0.01-25BJ
C405	87-010-958-080		CHIP-CAP,S 0.01-25BJ
C406	87-010-958-080		CHIP-CAP,S 0.01-25BJ
C407	87-010-401-080		CAP,ELECT 1-50V
C408	87-010-401-080		CAP,ELECT 1-50V
C409	87-010-196-080		CHIP CAPACITOR,0.1-25
C410	87-010-384-080		CAP,ELECT 100-25V
C411	87-010-400-080		CAP,ELECT 0.47-50V
C412	87-010-400-080		CAP,ELECT 0.47-50V
C413	87-010-400-080		CAP,ELECT 0.47-50V
C414	87-010-401-080		CAP,ELECT 1-50V
C415	87-010-546-080		CAP,ELECT 0.33-50V
C416	87-010-546-080		CAP ELECT 0.33-50V
C417	87-010-221-080		CAP,ELECT 470-10V
C418	87-A10-891-080		CAP,E 4.7-25 SME(K)
C419	87-A10-800-080		C-CAP,S 6800P-16 J B CM
C420	87-010-374-080		CAP,ELECT 47-10V
C421	87-010-196-080		CHIP CAPACITOR,0.1-25
C422	87-A10-804-080		C-CAP,S 0.1-25 J B
C424	87-010-374-080		CAP,ELECT 47-10V
C425	87-010-196-080		CHIP CAPACITOR,0.1-25
C429	87-010-544-080		CAP,ELECT 0.1-50V
C430	87-A10-201-080		C-CAP,S 0.33-16 K B
C431	87-010-971-080		C-CAP,S 4700P-50 B J
C432	87-012-349-080		C-CAP,S 1000P-50 CH
C433	87-A11-183-080		C-CAP,S 0.12-16 J B
C434	87-A11-182-080		C-CAP,S 0.27-16 J B
C435	87-A11-182-080		C-CAP,S 0.27-16 J B
C436	87-A11-183-080		C-CAP,S 0.12-16 J B
C437	87-010-971-080		C-CAP,S 4700P-50 B J
C438	87-012-349-080		C-CAP,S 1000P-50 CH
C439	87-010-805-080		CAP,S 1-16
C440	87-010-401-080		CAP,ELECT 1-50V
C441	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C442	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C443	87-A10-229-080		C-CAP,S 0.68-10 K W5R
C444	87-012-393-080		C-CAP,S 0.22-16 R K
C445	87-012-393-080		C-CAP,S 0.22-16 R K
C446	87-010-404-080		CAP,ELECT 4.7-50V
C447	87-010-404-080		CAP,ELECT 4.7-50V
C448	87-012-393-080		C-CAP,S 0.22-16 R K
C449	87-012-393-080		C-CAP,S 0.22-16 R K
C450	87-016-081-080		C-CAP,S 0.1-16 RK
C451	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C452	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C453	87-016-081-080		C-CAP,S 0.1-16 RK
C454	87-016-081-080		C-CAP,S 0.1-16 RK
C455	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C456	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C457	87-016-081-080		C-CAP,S 0.1-16 RK
C461	87-010-196-080		CHIP CAPACITOR,0.1-25
C463	87-010-196-080		CHIP CAPACITOR,0.1-25
C465	87-016-669-080		C-CAP,S 0.1-25
C466	87-010-194-080		CAP,CHIP 0.047
C467	87-A10-201-080		C-CAP,S 0.33-16 K B
C468	87-A10-060-080		C-CAP,S 0.18-16 K B
C472	87-012-140-080		C-CAP,S 470P
C473	87-012-140-080		C-CAP,S 470P
C474	87-012-140-080		C-CAP,S 470P
C475	87-012-140-080		C-CAP,S 470P
C476	87-012-140-080		C-CAP,S 470P
C477	87-012-140-080		C-CAP,S 470P
C478	87-010-401-080		CAP,ELECT 1-50V
C479	87-010-179-080		C-CAP,S 1200P
C480	87-010-179-080		C-CAP,S 1200P
C481	87-010-179-080		C-CAP,S 1200P
C482	87-010-179-080		C-CAP,S 1200P
C489	87-010-402-080		CAP,ELECT 2.2-50V
C491	87-010-402-080		CAP,ELECT 2.2-50V
C492	87-010-402-080		CAP,ELECT 2.2-50V
C531	87-010-405-080		CAP,ELECT 10-50V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25
C533	87-010-196-080		CHIP CAPACITOR,0.1-25
C534	87-012-156-080		C-CAP,S 220P-50 CH
C535	87-010-178-080		CHIP CAP,1000P
C536	87-010-196-080		CHIP CAPACITOR,0.1-25
C541	87-010-178-080		CHIP CAP,1000P
C609	87-010-181-080		CAP,CHIP S 1800P
C610	87-010-181-080		CAP,CHIP S 1800P
C611	87-010-598-080		C-CAP,S 0.068-16 K R GRM
C612	87-010-369-080		C-CAP,S 0.033-25 K B
C613	87-010-197-080		CAP,CHIP 0.01 DM
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C616	87-010-184-080		CHIP CAPACITOR,3300P
C617	87-010-194-080		CAP,CHIP 0.047
C618	87-010-401-080		CAP,ELECT 1-50V
C619	87-010-263-080		CAP,ELECT 100-10V
C620	87-016-081-080		C-CAP,S 0.1-16 RK
C621	87-010-197-080		CAP,CHIP 0.01 DM
C623	87-010-401-080		CAP,ELECT 1-50V
C624	87-010-401-080		CAP,ELECT 1-50V
C626	87-010-596-080		C-CAP,S 0.047-16
C627	87-010-400-080		CAP,ELECT 0.47-50V
C628	87-010-400-080		CAP,ELECT 0.47-50V
C629	87-010-596-080		CAP,S 0.047-16
C630	87-010-263-080		CAP,ELECT 100-10V
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C633	87-010-178-080		CHIP CAP,1000P
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP,M 0.1-50 J
C636	87-A10-307-080		CAP,M 0.1-50 J
C637	87-A10-307-080		CAP,M 0.1-50 J
C638	87-A10-307-080		CAP,M 0.1-50 J
C639	87-010-405-080		CAP,ELECT 10-50V
C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C644	87-010-401-080		CAP,ELECT 1-50V
C645	87-010-322-080		C-CAP,S 100P-50 CH
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-197-080		CAP,CHIP 0.01 DM
C676	87-010-382-080		CAP,ELECT 22-25V
C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C680	87-010-190-080		CHIP-CAP,S 0.01
C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C685	87-010-190-080		CHIP-CAP,S 0.01
C771	87-010-263-080		CAP,ELECT 100-10V
C772	87-010-197-080		CAP,CHIP 0.01 DM
C779	87-010-426-080		C-CAP,S 0.012-25 B
C780	87-010-426-080		C-CAP,S 0.012-25 B
C782	87-010-197-080		CAP,CHIP 0.01 DM
C783	87-010-197-080		CAP,CHIP 0.01 DM
C784	87-010-197-080		CAP,CHIP 0.01 DM
C785	87-010-197-080		CAP,CHIP 0.01 DM
C786	87-010-197-080		CAP,CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP,CHIP 0.01 DM
C793	87-010-404-080		CAP,ELECT 4.7-50V
C795	87-010-197-080		CAP,CHIP 0.01 DM
C796	87-010-197-080		CAP,CHIP 0.01 DM
C797	87-010-405-080		CAP,ELECT 10-50V
C798	87-010-197-080		CAP,CHIP 0.01 DM
C799	87-010-407-080		CAP,ELECT 33-50V
C800	87-010-194-080		CAP,CHIP 0.047
C801	87-010-403-080		CAP,ELECT 3.3-50V
C802	87-010-194-080		CAP,CHIP 0.047
C803	87-010-198-080		CAP,CHIP 0.022
C804	87-010-263-080		CAP,ELECT 100-10V
C807	87-010-400-080		CAP,ELECT 0.47-50V
C808	87-010-401-080		CAP,ELECT 1-50V
C809	87-010-401-080		CAP,ELECT 1-50V
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP,ELECT 3.3-50V
C812	87-010-403-080		CAP,ELECT 3.3-50V
C814	87-010-197-080		CAP,CHIP 0.01 DM
C815	87-010-400-080		CAP,ELECT 0.47-50V
C816	87-010-400-080		CAP,ELECT 0.47-50V
C821	87-010-405-080		CAP,ELECT 10-50V
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-010-404-080		CAP,ELECT 4.7-50V
C825	87-010-596-080		CAP,S 0.047-16
C842	87-010-197-080		CAP,CHIP 0.01 DM
C843	87-010-197-080		CAP,CHIP 0.01 DM
C844	87-010-197-080		CAP,CHIP 0.01 DM
C845	87-010-197-080		CAP,CHIP 0.01 DM
C846	87-010-197-080		CAP,CHIP 0.01 DM
C847	87-010-197-080		CAP,CHIP 0.01 DM
C848	87-010-197-080		CAP,CHIP 0.01 DM
C849	87-010-197-080		CAP,CHIP 0.01 DM
C850	87-010-260-080		CAP,ELECT 47-25V
C851	87-010-197-080		CAP,CHIP 0.01 DM
C852	87-010-197-080		CAP,CHIP 0.01 DM
C853	87-010-197-080		CAP,CHIP 0.01 DM
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP,CHIP 0.01 DM
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
C963	87-015-785-080		CHIP CAPACITOR,0.1-25 Z F
C971	87-010-381-080		CAP,ELECT 330-16V
C972	87-010-404-080		CAP,ELECT 4.7-50V
C973	87-010-197-080		CAP,CHIP 0.01 DM
C974	87-010-197-080		CAP,CHIP 0.01 DM
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP,ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP,CHIP 0.01 DM
C984	87-010-197-080		CAP,CHIP 0.01 DM
C987	87-010-197-080		CAP,CHIP 0.01 DM
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP,1000P
C995	87-010-178-080		CHIP CAP,1000P
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP,ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER,SFE10.7MA5
CF832	87-008-261-010		FILTER,SFE10.7MA5
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN91	87-A60-109-010		CONN,2P V S2M-2W
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN301	87-099-827-010		CONN,3P S2M-3W
CN351	87-099-832-010		CONN,8P S2M-8W
CN431	87-099-013-010		CONN,11P 6216 V
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN610	87-A61-171-010		CONN,5P V GRY FMN-BTK
CN611	87-049-919-010		CONN,3P EH V WHT
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA2	8A-NF6-630-110		CONN ASSY,3P(VM) ANF-6
FFC431	88-911-351-110		FF-CABLE,11P 1.25 350MM
FFC610	8A-DJV-621-010		FF-CABLE,5P 1.0 270MM
FFE831	A8-8ZA-193-070		8ZA-1 YFEUNC
J102	87-033-229-010		TERMINAL,SPKR 4P YKD21-0242
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J604	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A61-456-010		TERMINAL,ANT 4P MSP-154V-02 PB
L101	87-A50-610-010		COIL,1UH K(MDEC)
L102	87-A50-610-010		COIL,1UH K(MDEC)
L301	87-A50-625-010		COIL,TRAP 85KHZ(SANWA)
L302	87-A50-625-010		COIL,TRAP 85KHZ(SANWA)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L801	87-A50-608-010		COIL,FM DET-N(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UHK CECS
L832	87-005-847-080		COIL,2.2UHK CECS
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R161	87-A00-439-050		RES,180-1/2W J RP
R162	87-A00-439-050		RES,180-1/2W J RP
R163	87-A00-439-050		RES,180-1/2W J RP
R164	87-A00-439-050		RES,180-1/2W J RP
R407	87-022-214-080		C-RES S100K-1/10W F
R790	87-010-197-080		CAP,CHIP 0.01 DM
R991	87-010-322-080		C-CAP,S 100P-50 CH
R993	87-010-322-080		C-CAP,S 100P-50 CH
R995	87-010-322-080		C-CAP,S 100P-50 CH
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C201	87-010-322-080		C-CAP,S 100P-50 CH
C202	87-010-322-080		C-CAP,S 100P-50 CH
C203	87-010-322-080		C-CAP,S 100P-50 CH
C204	87-010-322-080		C-CAP,S 100P-50 CH
C205	87-010-322-080		C-CAP,S 100P-50 CH
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-010-322-080		C-CAP,S 100P-50 CH
C211	87-010-322-080		C-CAP,S 100P-50 CH
C251	87-010-405-040		CAP,E 10-50
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-012-369-080		C-CAP,S 0.047-50F
C255	87-010-560-040		CAP,E 10-50 GAS
C256	87-010-405-040		CAP,E 10-50
C259	87-010-405-040		CAP,E 10-50
C264	87-010-196-080		CHIP CAPACITOR,0.1-25
C270	87-010-178-080		CHIP CAP,1000P
C271	87-010-178-080		CHIP CAP,1000P
C273	87-010-178-080		CHIP CAP,1000P
C274	87-010-178-080		CHIP CAP,1000P
C301	87-010-182-080		C-CAP,S 2200P-50 B
C302	87-010-196-080		CHIP CAPACITOR,0.1-25
C303	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-498-040		CAP,E 10-16 GAS
C314	87-010-196-080		CHIP CAPACITOR,0.1-25
C315	87-010-196-080		CHIP CAPACITOR,0.1-25
C316	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C321	87-012-393-080		C-CAP,S 0.22-16 R K
C322	87-010-400-040		CAP,E 0.47-50
C325	87-A10-189-040		CAP,E 220-10
C326	87-A10-189-040		CAP,E 220-10
C332	87-010-178-080		CHIP CAP,1000P
C334	87-010-312-080		C-CAP,S 15P-50 CH
C335	87-012-155-080		C-CAP,180P-50CH
C336	87-010-322-080		C-CAP,S 100P-50 CH
C339	87-012-156-080		C-CAP,S 220P-50 CH
C340	87-010-197-080		CAP,CHIP 0.01 DM
C341	87-010-194-080		CAP,CHIP 0.047
C351	87-010-382-040		CAP,E 22-25 SME
C401	87-010-197-080		CAP,CHIP 0.01 DM
C451	87-010-196-080		CHIP CAPACITOR,0.1-25
C452	87-010-196-080		CHIP CAPACITOR,0.1-25
C453	87-010-196-080		CHIP CAPACITOR,0.1-25
C454	87-010-198-080		CAP,CHIP 0.022
C455	87-010-198-080		CAP,CHIP 0.022
C458	87-010-320-080		CHIP CAP,68P
C459	87-010-320-080		CHIP CAP,68P
C502	87-010-186-080		CAP,CHIP 4700P
C503	87-010-112-040		CAP,E 100-16
C504	87-010-405-040		CAP,E 10-50
C505	87-010-545-040		CAP,E 0.22-50 SME
C506	87-010-320-080		CHIP CAP,68P
C513	87-010-196-080		CHIP CAPACITOR,0.1-25
C515	87-010-178-080		CHIP CAP,1000P
C602	87-010-322-080		C-CAP,S 100P-50 CH
C603	87-010-322-080		C-CAP,S 100P-50 CH
C604	87-010-322-080		C-CAP,S 100P-50 CH
C650	87-010-196-080		CHIP CAPACITOR,0.1-25
C699	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN102	87-A61-356-010		CONN,13P V GRY FMN-BTK
CN302	87-A60-136-010		CONN,11P V FE
FB301	87-008-372-080		FILTER,EMI BL01 RN1
FB501	87-008-372-080		FILTER,EMI BL01 RN1
FFC102	8A-DJV-620-010		FF-CABLE,13P 1.0 300MM
FFC302	88-911-101-110		FF-CABLE,11P 1.25
FL401	8A-DJV-601-010		FL,HNA-11MM34(ADJ-28)
J501	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
L331	87-A50-333-010		COIL,OSC 9.43MHZ
LED311	87-A40-589-040		LED,SLR-56VCT31 RED
LED601	87-A40-803-010		LED,SELU1E10CXM-S LF38 BLUE
LED602	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED603	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED605	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED607	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED608	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
S401	87-A91-024-180		SW,TACT KSHG611BT
S402	87-A91-024-180		SW,TACT KSHG611BT
S403	87-A91-024-180		SW,TACT KSHG611BT
S404	87-A91-024-180		SW,TACT KSHG611BT
S405	87-A91-024-180		SW,TACT KSHG611BT
S406	87-A91-024-180		SW,TACT KSHG611BT
S407	87-A91-024-180		SW,TACT KSHG611BT
S408	87-A91-024-180		SW,TACT KSHG611BT
S409	87-A91-024-180		SW,TACT KSHG611BT
S410	87-A91-024-180		SW,TACT KSHG611BT
S411	87-A91-024-180		SW,TACT KSHG611BT
S412	87-A91-024-180		SW,TACT KSHG611BT
S413	87-A91-024-180		SW,TACT KSHG611BT
S414	87-A91-024-180		SW,TACT KSHG611BT
S415	87-A91-024-180		SW,TACT KSHG611BT
S416	87-A91-024-180		SW,TACT KSHG611BT
S417	87-A91-024-180		SW,TACT KSHG611BT
S418	87-A91-024-180		SW,TACT KSHG611BT
S419	87-A91-024-180		SW,TACT KSHG611BT
S425	87-A91-024-180		SW,TACT KSHG611BT
S426	87-A91-024-180		SW,TACT KSHG611BT
S427	87-A91-024-180		SW,TACT KSHG611BT
S428	87-A91-024-180		SW,TACT KSHG611BT
S429	87-A91-024-180		SW,TACT KSHG611BT
S430	87-A91-024-180		SW,TACT KSHG611BT
S431	87-A91-024-180		SW,TACT KSHG611BT
S432	87-A91-024-180		SW,TACT KSHG611BT
S433	87-A91-024-180		SW,TACT KSHG611BT
S434	87-A91-024-180		SW,TACT KSHG611BT
S435	87-A91-024-180		SW,TACT KSHG611BT
SW252	87-A91-555-010		SW,RTRY EC12E24504
SW253	87-A91-542-010		SW,RTRY EC12E12504

AMP 1F C.B

C101	87-010-181-080		CAP,CHIP S 1800P
C102	87-010-181-080		CAP,CHIP S 1800P
C103	87-010-545-080		CAP,ELECT 0.22-50V
C104	87-010-545-080		CAP,ELECT 0.22-50V
C107	87-010-405-080		CAP,ELECT 10-50V
C108	87-010-405-080		CAP,ELECT 10-50V
C111	87-010-179-080		CAP,CHIP S 1200P
C112	87-010-179-080		CAP,CHIP S 1200P
C113	87-010-405-080		CAP,ELECT 10-50V
C114	87-010-405-080		CAP,ELECT 10-50V
C115	87-A12-180-080		CAP,E 10-63 M 105 KME
C116	87-A12-180-080		CAP,E 10-63 M 105 KME
C119	87-010-197-080		CAP,CHIP 0.01 DM
C120	87-010-197-080		CAP,CHIP 0.01 DM
C133	87-010-190-080		CHIP-CAP,S 0.01-50
C153	87-010-188-080		CAP,CHIP 6800P
C201	87-A10-300-080		CAP,M 0.027-50 J
C202	87-A10-300-080		CAP,M 0.027-50 J
C203	87-A10-300-080		CAP,M 0.027-50 J
C204	87-A10-300-080		CAP,M 0.027-50 J
C205	87-010-180-080		C-CAP,S 1500P
C206	87-010-180-080		C-CAP,S 1500P
C207	87-010-401-080		CAP,ELECT 1-50V
C208	87-010-401-080		CAP,ELECT 1-50V
C209	87-010-187-080		CAP,CHIP S 5600P
C210	87-010-187-080		CAP,CHIP S 5600P
C211	87-010-403-080		CAP,ELECT 3.3-50V
C212	87-010-403-080		CAP,ELECT 3.3-50V
C215	87-010-179-080		CAP,CHIP S 1200P
C216	87-010-179-080		CAP,CHIP S 1200P
C217	87-010-403-080		CAP,ELECT 3.3-50V
C218	87-010-403-080		CAP,ELECT 3.3-50V
C221	87-010-405-080		CAP,ELECT 10-50V
C222	87-010-405-080		CAP,ELECT 10-50V
C223	87-010-197-080		CAP,CHIP 0.01 DM
C224	87-010-197-080		CAP,CHIP 0.01 DM
C251	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-196-080		CHIP CAPACITOR,0.1-25
C259	87-010-197-080		CAP,CHIP 0.01 DM
C260	87-010-197-080		CAP,CHIP 0.01 DM
C401	87-010-260-080		CAP,ELECT 47-25V
CN101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN105	87-099-198-010		CONN,10P 6216 V
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
CNA103	8A-NF8-655-010		CONN ASSY,7P TID-A(250)
FFC105	88-910-151-110		FF-CABLE,10P 1.25 150MM
J202	87-A61-158-010		JACK,PIN 2P R/W/BL H(SEPA) KM
L251	87-A50-610-010		COIL,1UH K(MDEC)
L252	87-A50-610-010		COIL,1UH K(MDEC)
R129	87-A00-262-080		RES,M/F 0.15-2W J
R130	87-A00-262-080		RES,M/F 0.15-2W J
R231	87-A00-258-080		RES,M/F 0.22-1W J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R232	87-A00-258-080		RES,M/F 0.22-1W J
WH101	87-A90-459-010		HLDR,WIRE 2.5-5P
WH102	87-A90-460-010		HLDR,WIRE 2.5-7P

AMP PROLOGIC C.B

C101	87-010-181-080		CAP,CHIP S 1800P
C102	87-010-181-080		CAP,CHIP S 1800P
C103	87-010-400-080		CAP,ELECT 0.47-50V
C104	87-010-400-080		CAP,ELECT 0.47-50V
C105	87-010-184-080		CHIP CAPACITOR,3300P(K)
C106	87-010-184-080		CHIP CAPACITOR,3300P(K)
C107	87-010-405-080		CAP,ELECT 10-50V
C108	87-010-405-080		CAP,ELECT 10-50V
C111	87-010-179-080		CAP,CHIP S 1200P
C112	87-010-179-080		CAP,CHIP S 1200P
C113	87-010-405-080		CAP,ELECT 10-50V
C114	87-010-405-080		CAP,ELECT 10-50V
C115	87-010-405-080		CAP,ELECT 10-50V
C116	87-010-405-080		CAP,ELECT 10-50V
C121	87-010-190-080		S CHIP-CAP,F 0.01
C122	87-010-190-080		S CHIP-CAP,F 0.01
C151	87-012-368-080		C-CAP,S 0.1-50 F
C152	87-012-368-080		C-CAP,S 0.1-50 F
C153	87-010-196-080		CHIP CAPACITOR,0.1-25
C154	87-010-196-080		CHIP CAPACITOR,0.1-25
C160	87-010-190-080		S CHIP-CAP,F 0.01
C161	87-010-188-080		CAP,CHIP 6800P
C201	87-010-183-080		C-CAP,S 2700P-50 B
C202	87-010-404-080		CAP,ELECT 4.7-50V
C204	87-010-406-080		CAP,ELECT 22-50
C205	87-010-260-080		CAP,ELECT 47-25V
C206	87-A10-946-080		C-CAP,S 220P-100 J CH
C208	87-010-197-080		CAP,CHIP 0.01 DM
C209	87-010-260-080		CAP,ELECT 47-25V
C210	87-010-260-080		CAP,ELECT 47-25V
C211	87-010-178-080		CHIP CAP,1000P
C212	87-010-178-080		CHIP CAP,1000P
C251	87-012-368-080		C-CAP,S 0.1-50 F
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C253	87-010-190-080		S CHIP-CAP,F 0.01
CN101	87-A61-109-010		CONN,7P V TID-A
CN102	87-099-198-010		CONN,10P 6216 V
J101	87-A61-159-010		JACK,PIN 4P R/W/B/0 KM
L151	87-A50-610-010		COIL,1UH K(MDEC)
L152	87-A50-610-010		COIL,1UH K(MDEC)
L251	87-A50-610-010		COIL,1UH K(MDEC)
R131	87-A00-258-080		RES,M/F 0.22-1W J
R132	87-A00-258-080		RES,M/F 0.22-1W J
R218	87-A00-258-080		RES,M/F 0.22-1W J
TH201	87-A91-042-080		C-THMS,100K 55001

PT C.B

C1	87-010-387-080		CAP,E 470-25 SME
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-010-917-000		CAP,E 3300-50 M SMG
C7	87-010-917-000		CAP,E 3300-50 M SMG
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
C12	87-016-520-000		CAP,E 3300-65 M SMG
C13	87-016-520-000		CAP,E 3300-65 M SMG
C14	87-A11-148-080		CAP,TC U 0.1-50 Z F
C15	87-A11-148-080		CAP,TC U 0.1-50 Z F
C16	87-010-403-080		CAP,ELECT 3.3-50V
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ JW13	87-A91-805-010		FUSE,10A 125V 237-0101ME600
⚠ PT1	8A-DJV-604-010		PT,ADJ-28(U)
⚠ PT2	8A-NF8-661-010		PT,SUB ANF-8(U)
⚠ RY2	87-A91-418-010		RELAY,AC12V G5PA-1-M
⚠ T1	87-A60-317-010		TERMINAL,1P MSC
⚠ T2	87-A60-317-010		TERMINAL,1P MSC

VM C.B

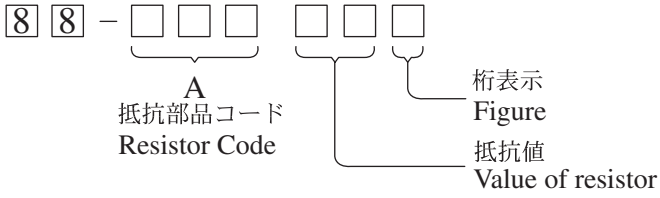
CNA3	8A-NF6-630-110		CONN ASSY,3P(VM) ANF-6

DECK C.B

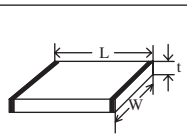
CN1	87-099-753-010		CONN,11P H 9604
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL1	82-ZM3-634-110		SOL ASSY,27 0M
SOL2	82-ZM3-634-110		SOL ASSY,27 0M
SW1	87-A90-673-010		SW,MICRO ESE11SH1C
SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
SW5	87-A90-673-010		SW,MICRO ESE11SH1C

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

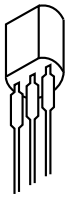
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

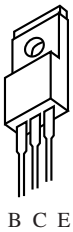
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

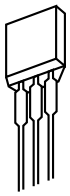


CD1585
CSA952
CSC4115
KTA1266
KTC3198

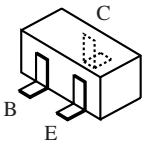
2SA1981
2SA952
CC5551



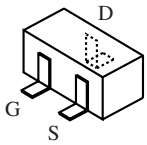
2SB1342
2SB1370
2SD1933



DTC114ES
KTC3199

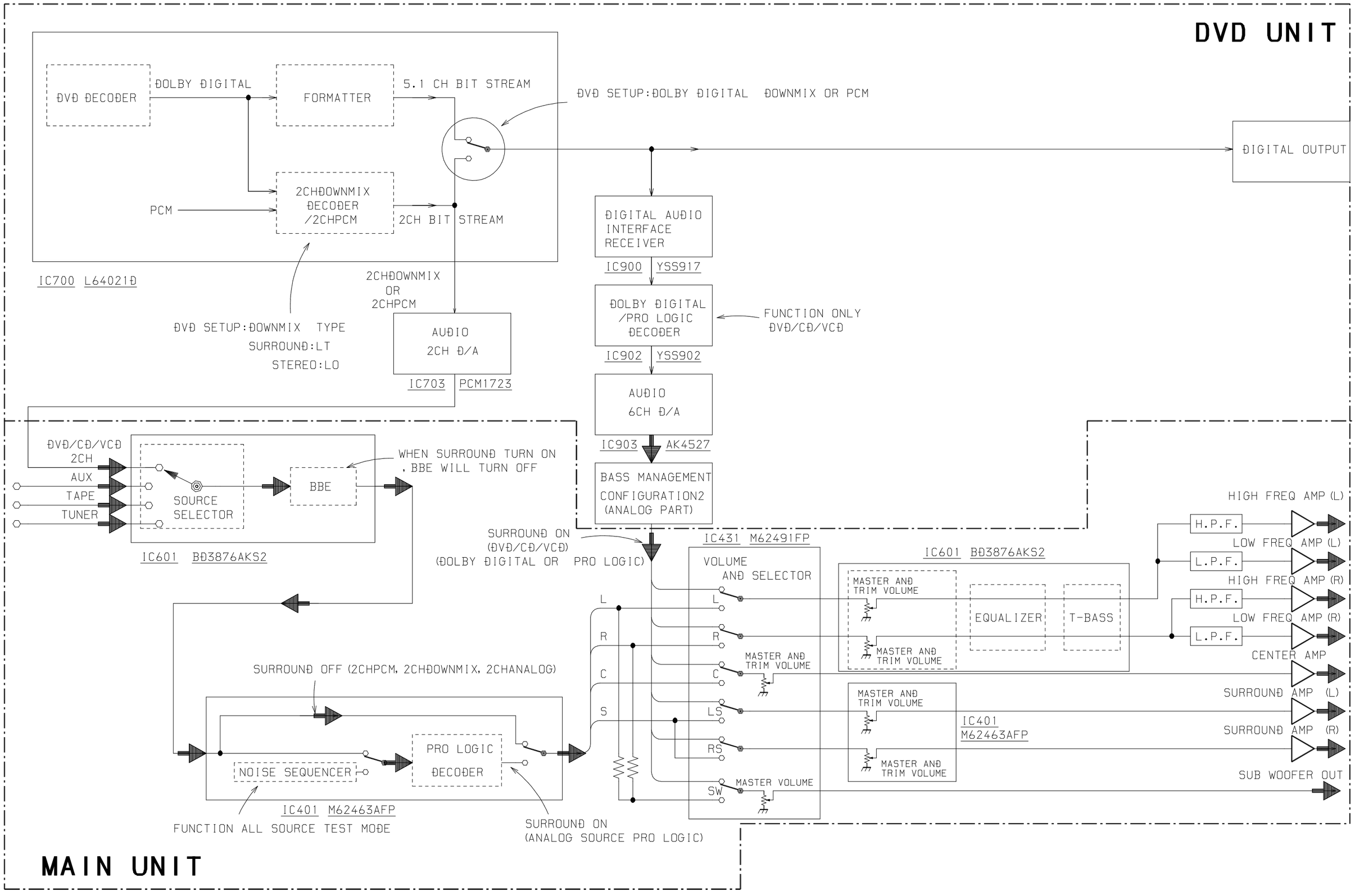


2SA1235
2SC2714
2SC3052
CMBT5401
CMBT5551
CSD1306
DTC144EK
RT1N141C
RT1P141C
RT1P144C
RT1P441C

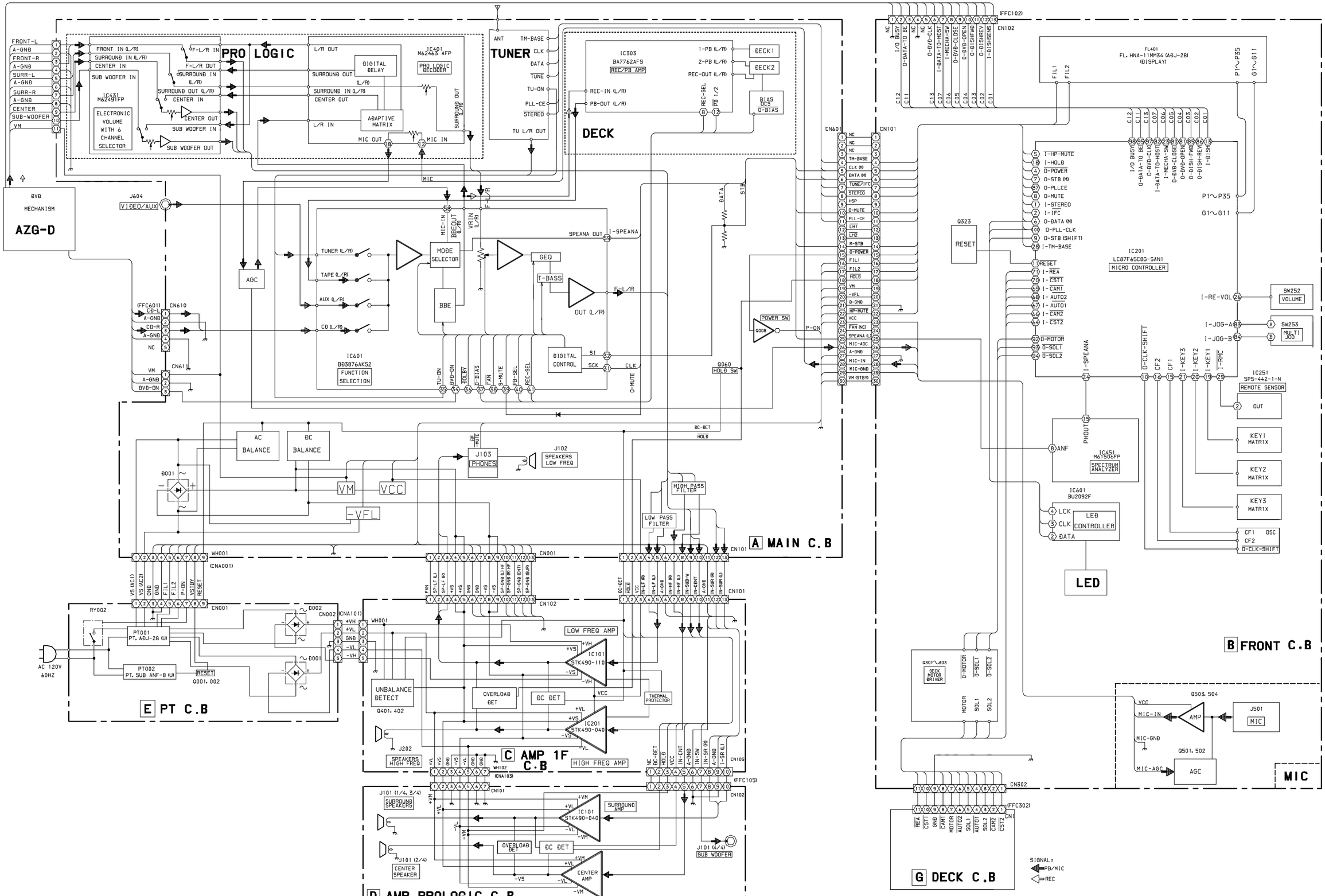


2SJ461
2SK2158

BLOCK DIAGRAM – 1 (MAIN UNIT / DVD UNIT)



BLOCK DIAGRAM – 2 (MAIN / FRONT / AMP 1F / AMP PROLOGIC / PT / DECK)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

TO DECK 2 CON351

TO DECK1 CON301

TO FRONT C.B CN101

J831 ANTENNA

AM LOOP

FM 75Ω

TO DVD MECHANISM AZG-D ZAAPA (FFC431)

(FFC610)

J604 VIDEO/AUX

R L

TO PT C.B CN001 (CNA001)

J102

R L

SPEAKERS LOW FREQ

SPEAKER IMP:6Ω

TO AMP 1F C.B CN102

TO AMP 1F C.B CN101

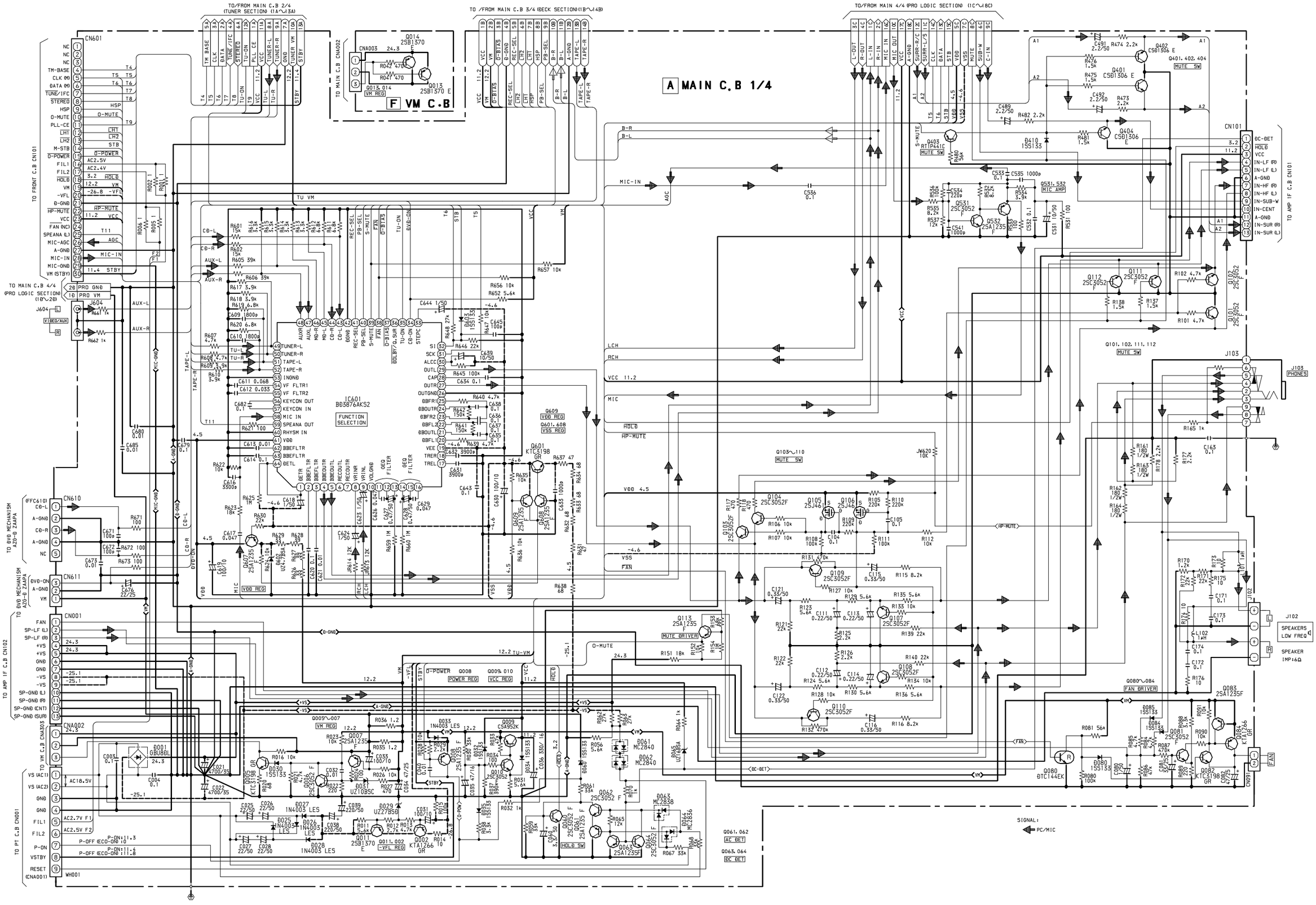
TO CN091

FAN

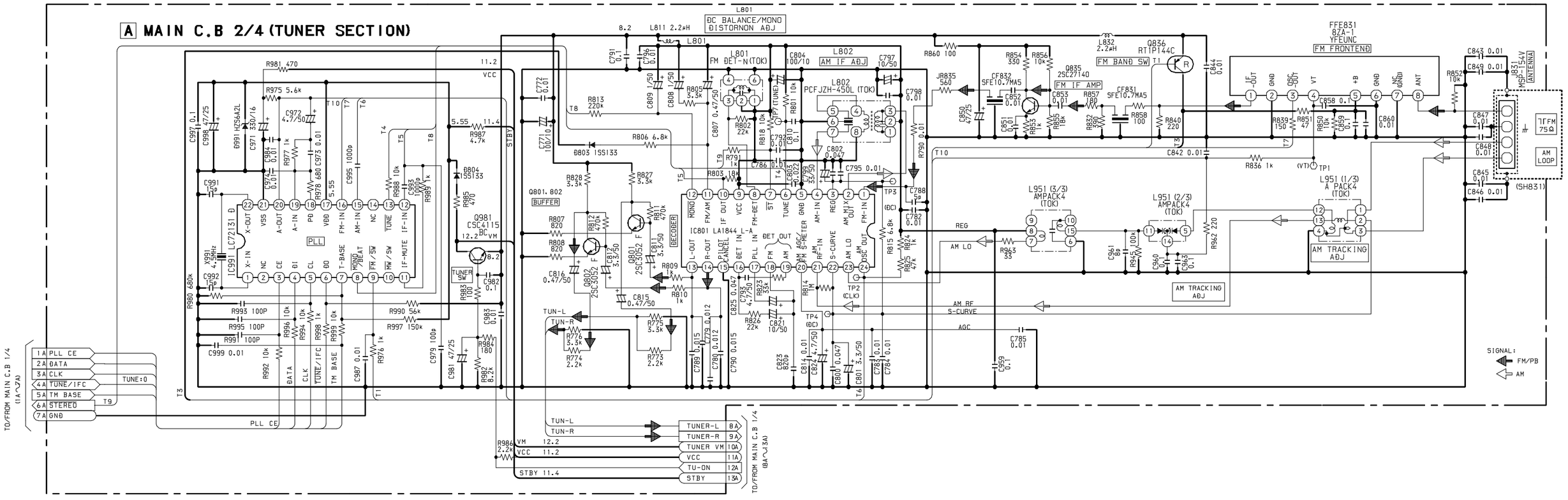
J103 PHONES

F VM C.B

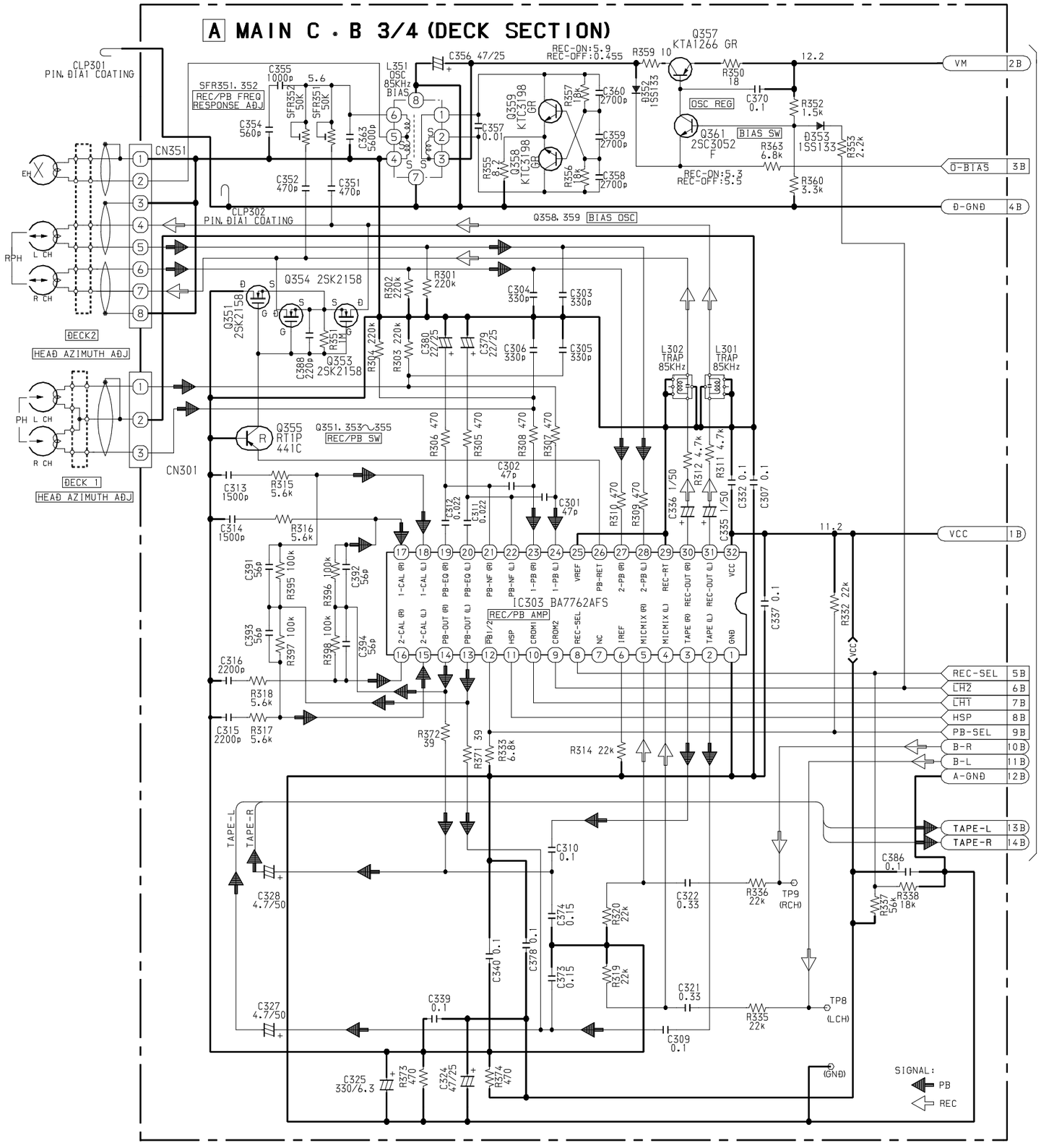
SCHEMATIC DIAGRAM – 1 (MAIN : 1 / 4 / VM)



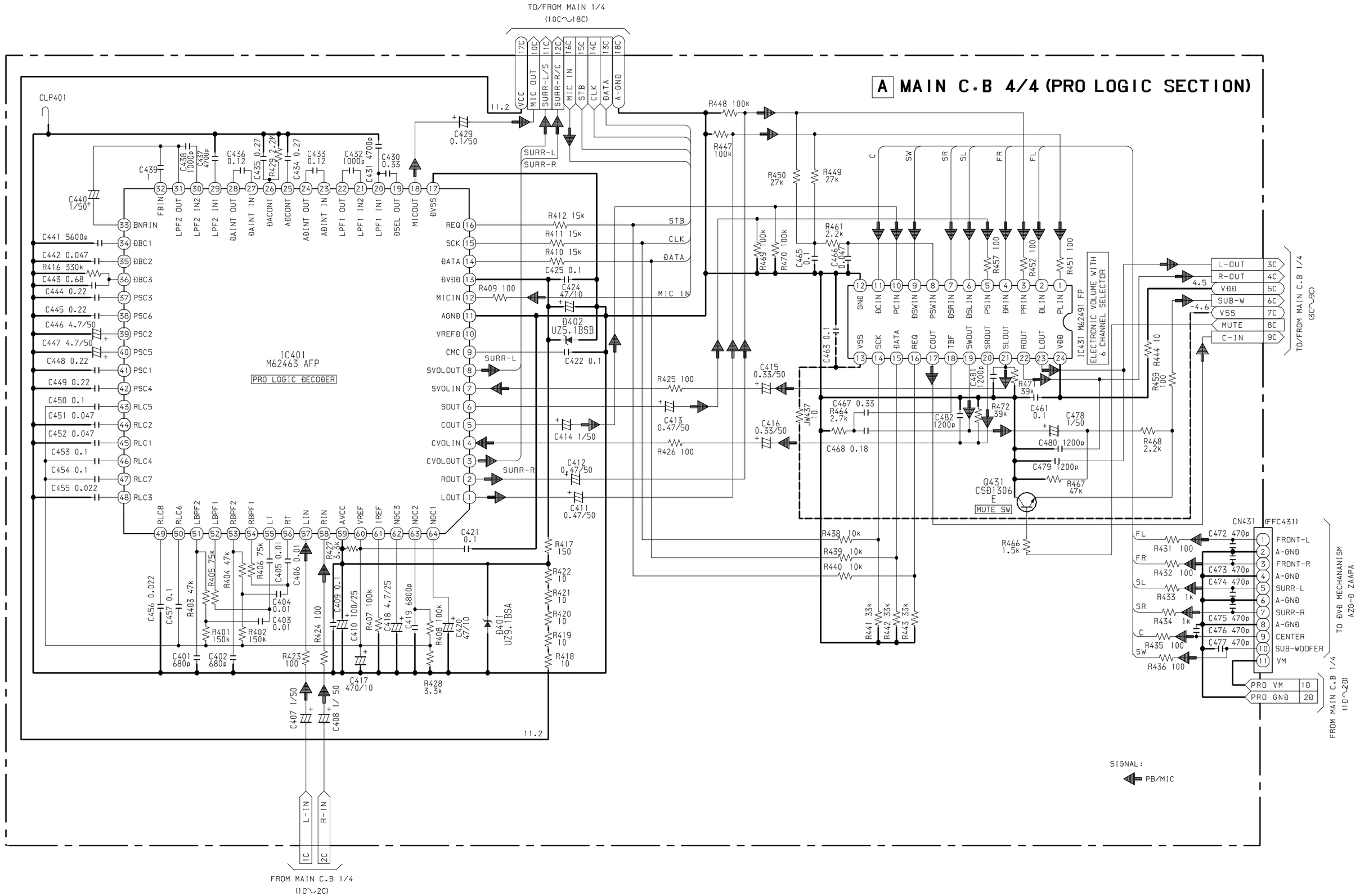
SCHEMATIC DIAGRAM – 2 (MAIN : 2 / 4 <TUNER SECTION>)



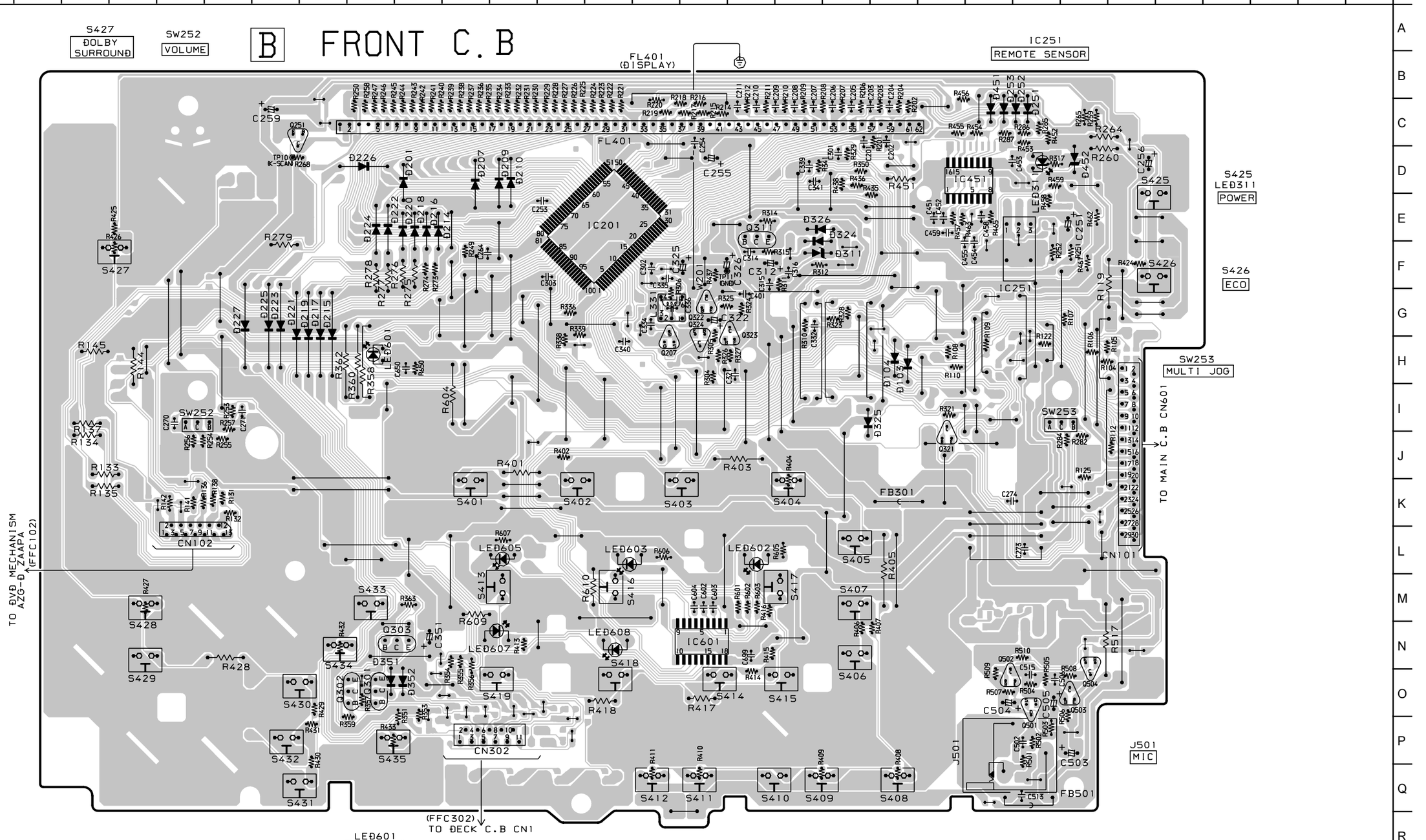
SCHEMATIC DIAGRAM – 3 (MAIN : 3 / 4 <DECK SECTION>)



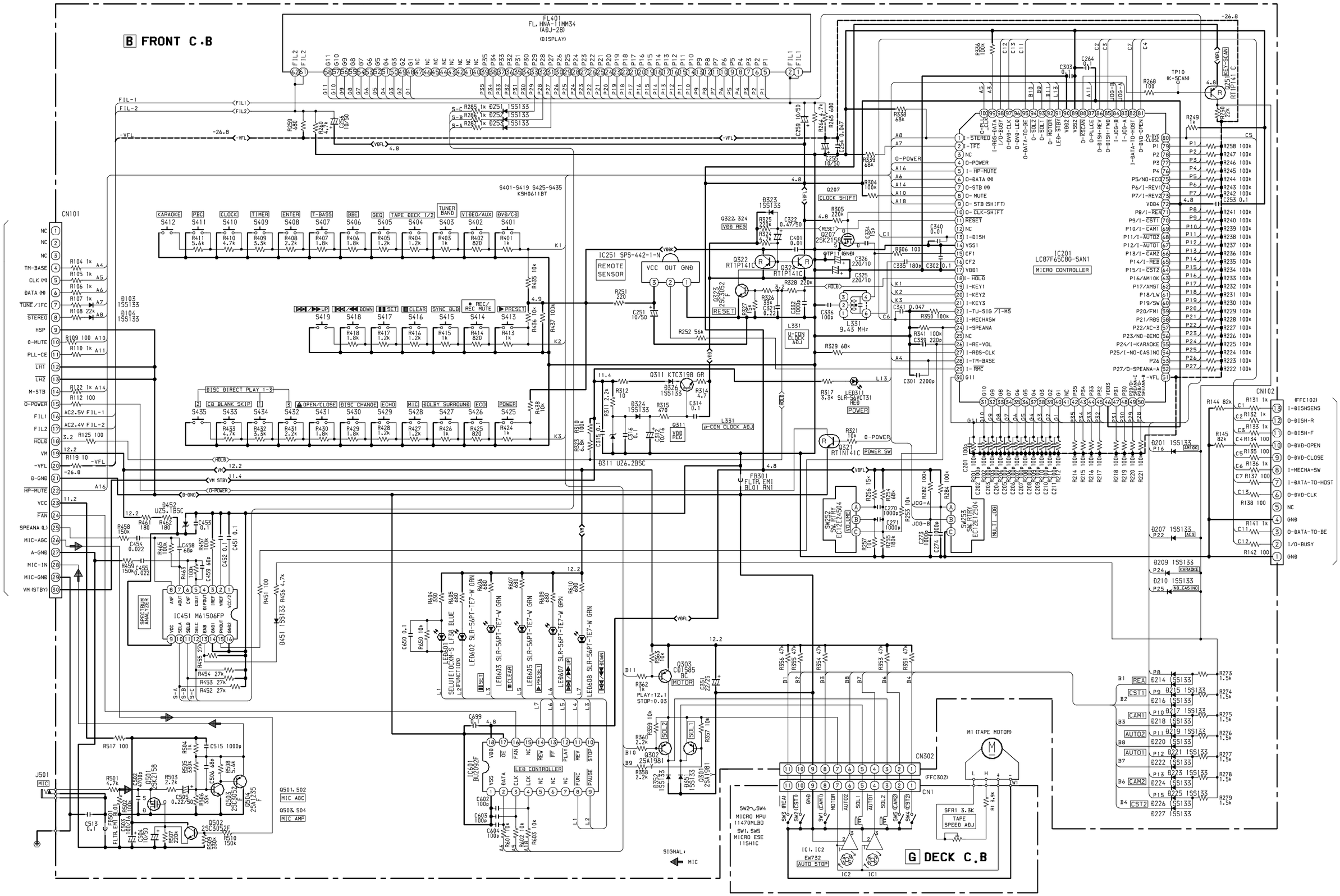
SCHEMATIC DIAGRAM – 4 (MAIN : 4 / 4 <PRO LOGIC SECTION>)



B FRONT C.B


S427 ĐOLBY SURROUNĐ
SW252 VOLUME
FL401 (ĐISPLAY)
IC251 REMOTE SENSOR
S425 LEĐ311 POWER
S426 ECO
SW253 MULTI JOG
TO MAIN C.B CN601
TO ĐVĐ MECHANISM AZG-Đ ZAAPA (FFC102)
CN102
CN101
CN302
(FFC302) TO ĐECK C.B CN1
J501 MIC
IC201
IC451
IC601
FB301
FB501
S401 ĐVĐ/CĐ
S402 VIĐEO/AUX
S403 TUNER BANĐ
S404 TAPE ĐECK 1/2
S405 GEQ
S406 BBE
S407 T-BASS
S408 ENTER
S409 TIMER
S410 CLOCK
S411 PBC
S412 KARAOKE
S413 ▶PRESET
S414 ●REC/REC MUTE
S415 SYNC ĐUB
S416 ■CLEAR
S417 ❚❚SET
S418 ◀◀/⏮ĐOWN
S419 ▶▶/⏭UP
S428 MIC
S429 ECHO
S430 ĐISC CHANGE
S431 ▲OPEN/CLOSE
S432 3
S433 CĐ BLANK SKIP
S434 1
S435 2
ĐISC ĐIRECT PLAY 1-3
LEĐ601 (FUNCTION)

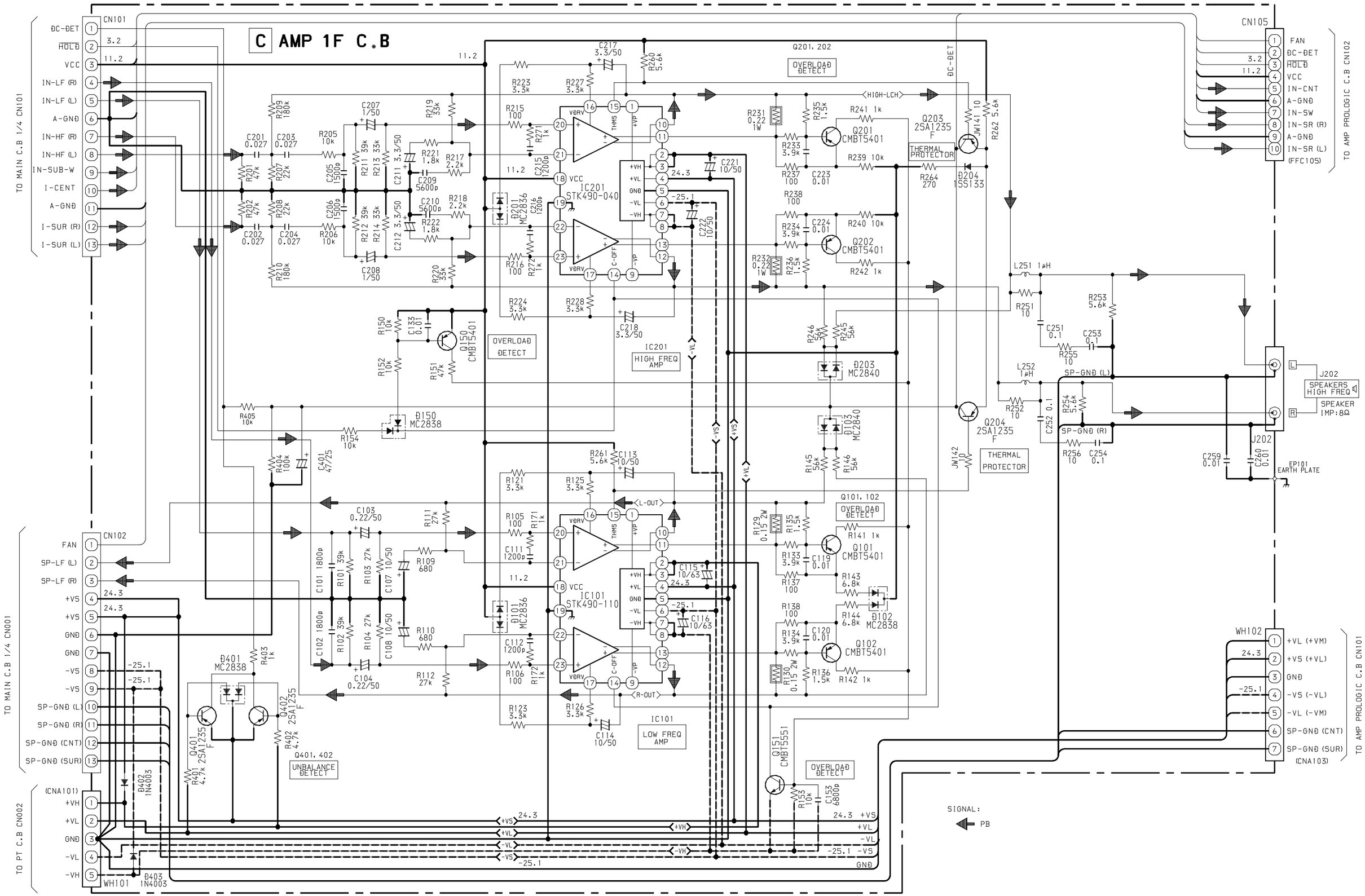
SCHEMATIC DIAGRAM – 5 (FRONT / DECK)



C AMP 1F C.B

TO AMP PROLOGIC C.B CN102
(FFC105)
TO MAIN C.B CN101
TO AMP PROLOGIC C.B CN101
(CNA103)
TO MAIN C.B CN001
(CNA101)
TO PT C.B CN002
SPEAKERS HIGH FREQ
SPEAKER IMP:8Ω

SCHEMATIC DIAGRAM – 6 (AMP 1F)



AMP PROLOGIC C.B

J101 (1/4, 3/4)
SURROUND SPEAKERS
3/4 R
1/4 L
SPEAKER
IMP : 8 ~ 16Ω

J101 (4/4)
SUB WOOFER
4/4

2/4
J101 (2/4)
CENTER SPEAKER
SPEAKER
IMP : 8Ω

IC101

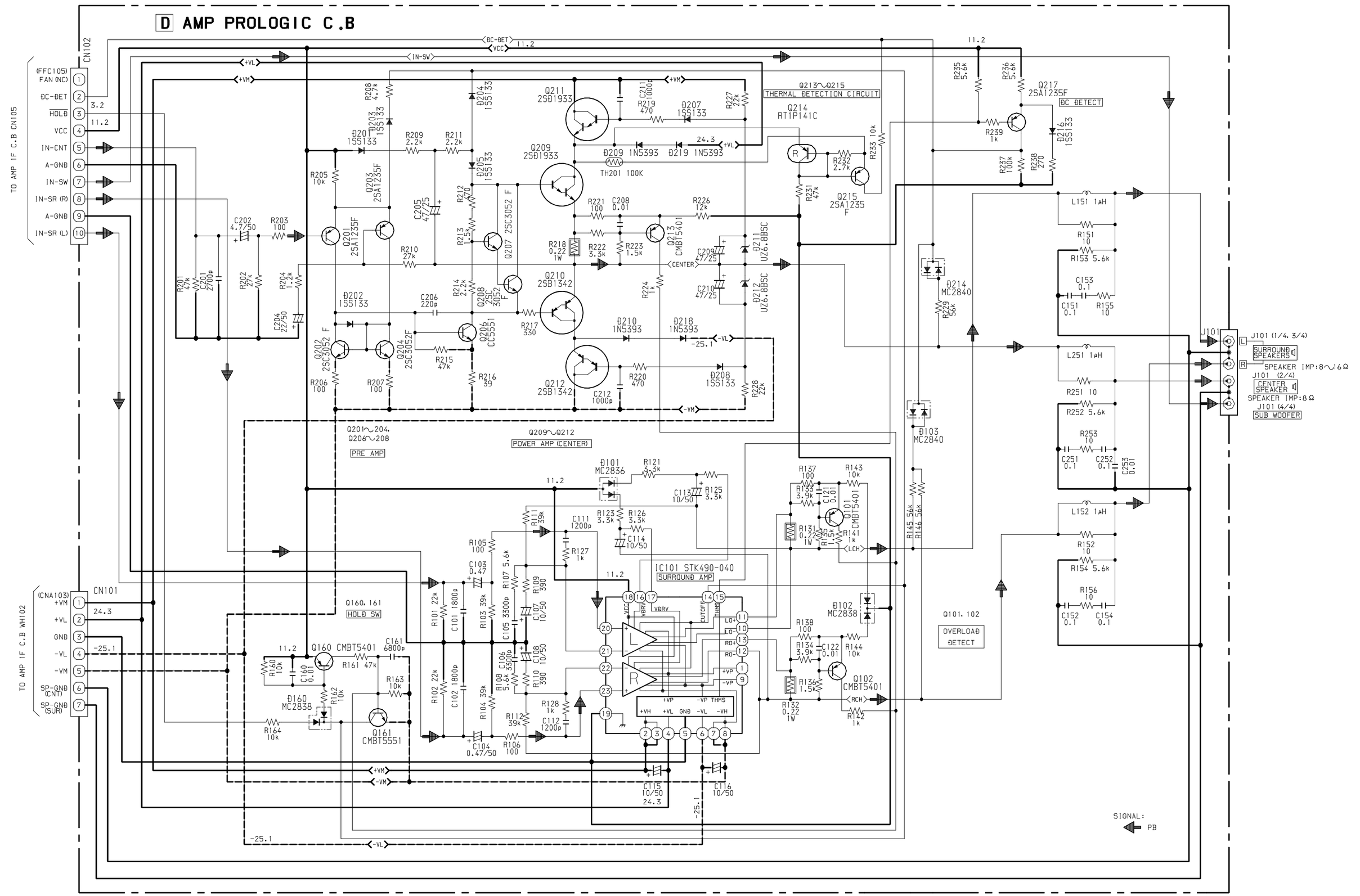
TH201

(GRN)

(CNA103)
TO AMP 1F C.B WH102

(FFC105)
TO AMP 1F C.B CN105

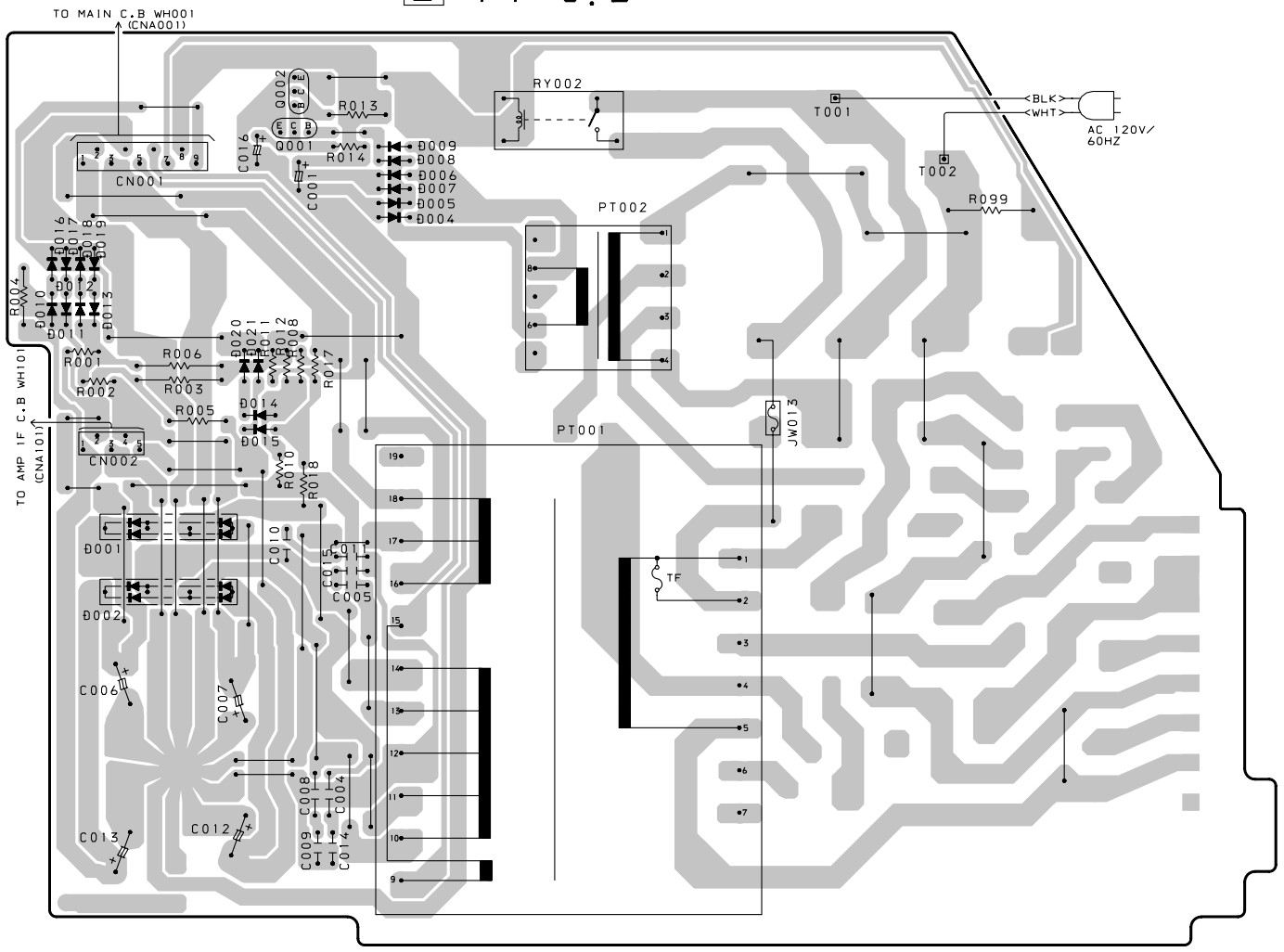
SCHEMATIC DIAGRAM – 7 (AMP PROLOGIC)



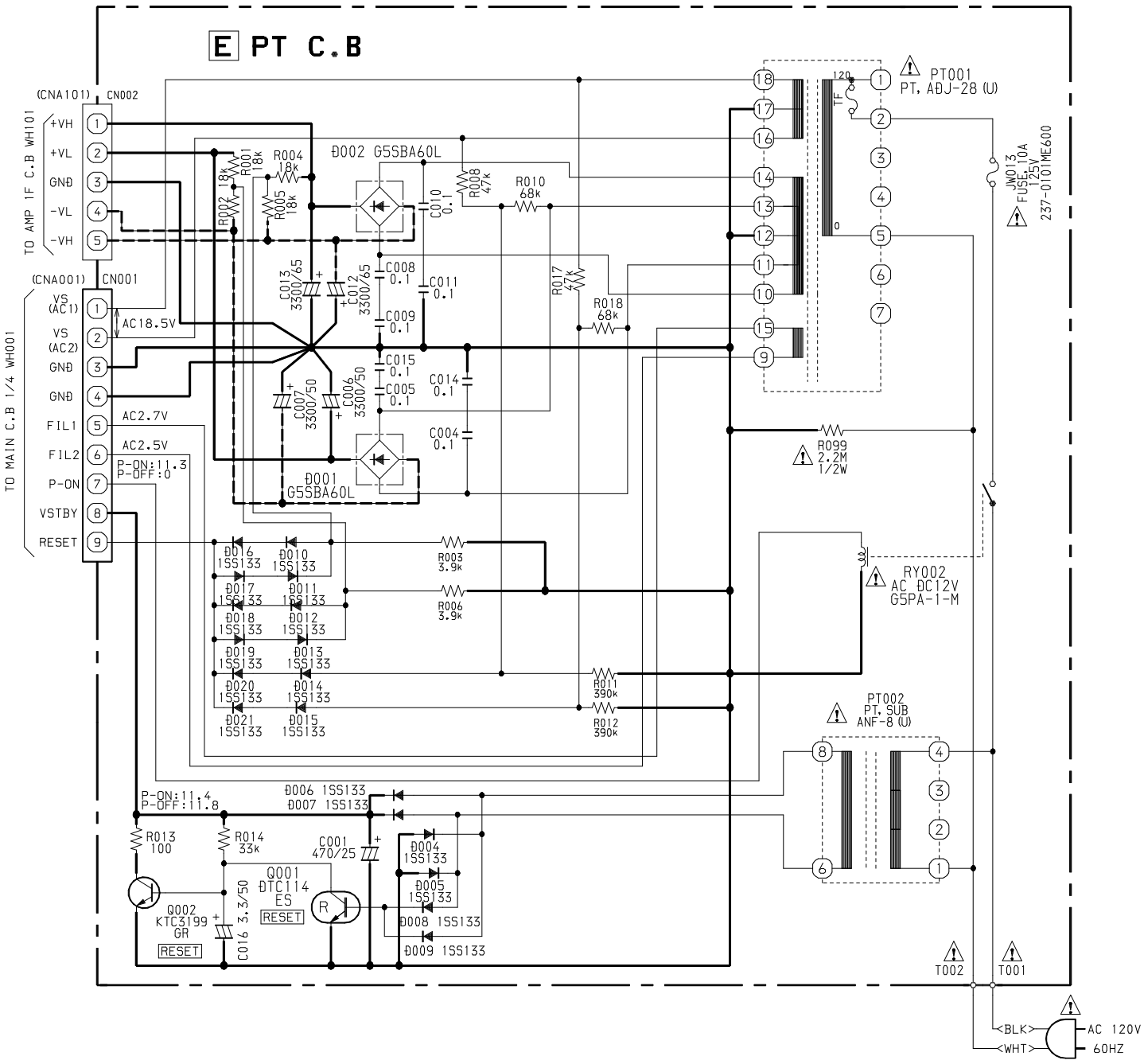
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

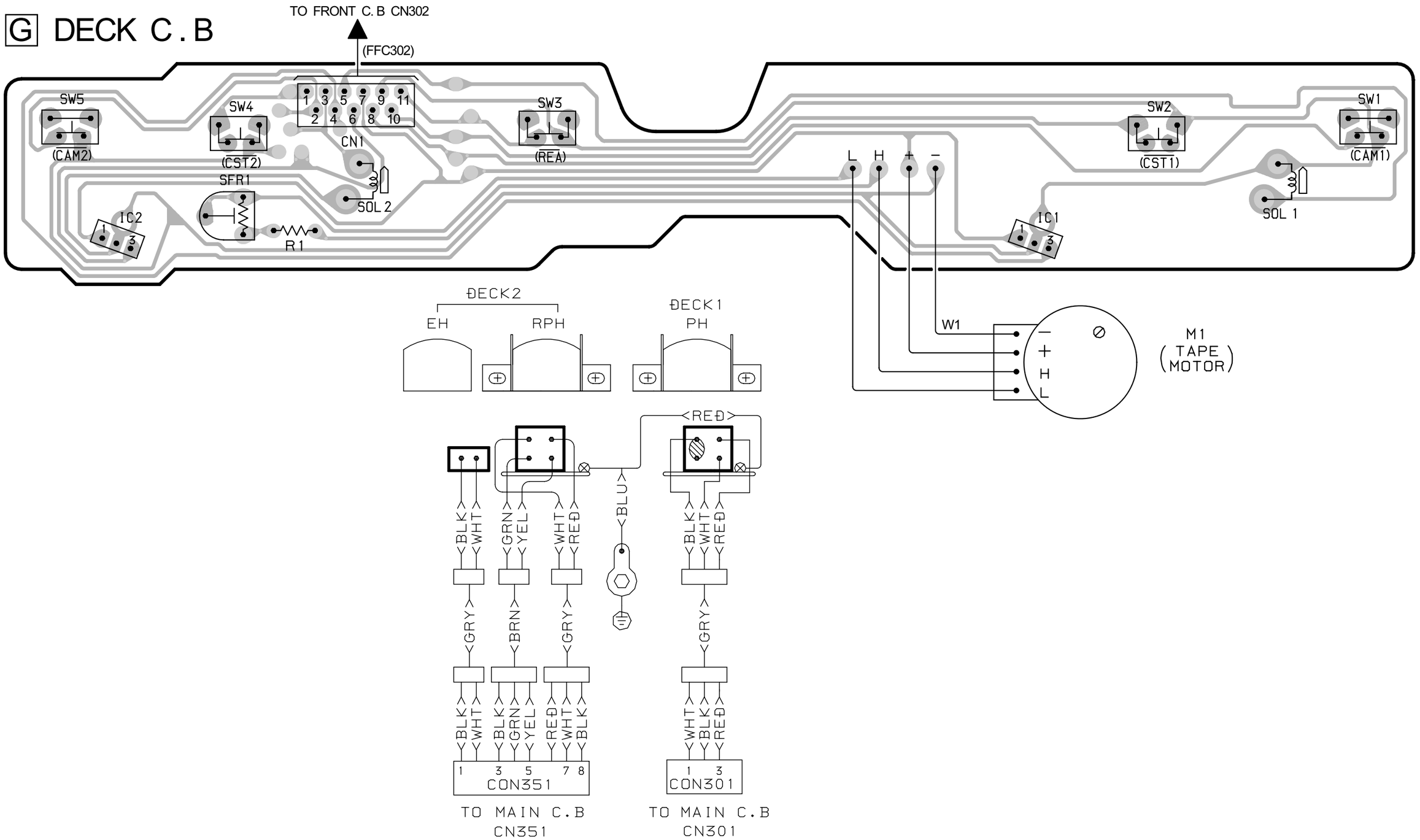
E PT C.B



SCHEMATIC DIAGRAM – 8 (PT)

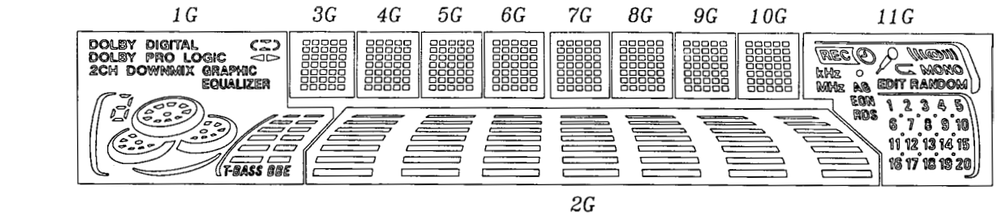


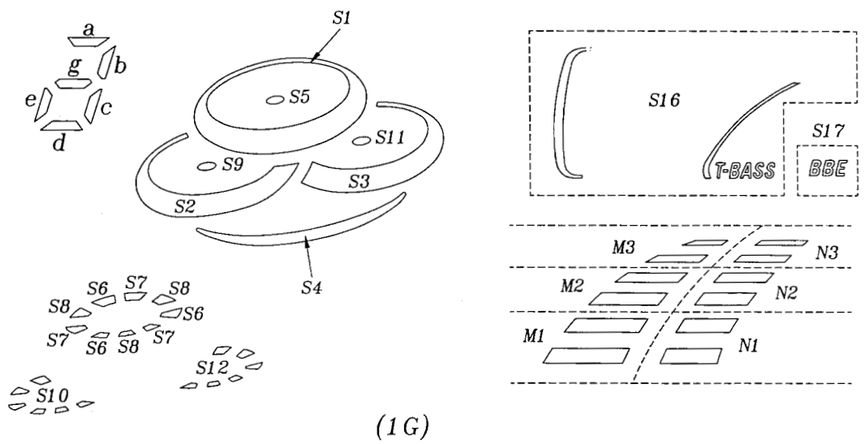
G DECK C.B


TO FRONT C.B CN302
(FFC302)
SW5
(CAM2)
SW4
(CST2)
SFR1
IC2
R1
CN1
SOL 2
SW3
(REA)
L
H
+
–
SW2
(CST1)
IC1
SW1
(CAM1)
SOL 1
W1
M1
(TAPE
MOTOR)
DECK2
EH
RPH
DECK1
PH
<RED>
BLK
WHT
GRN
YEL
BLU
GRY
BRN
CON351
CON301
TO MAIN C.B
CN351
TO MAIN C.B
CN301

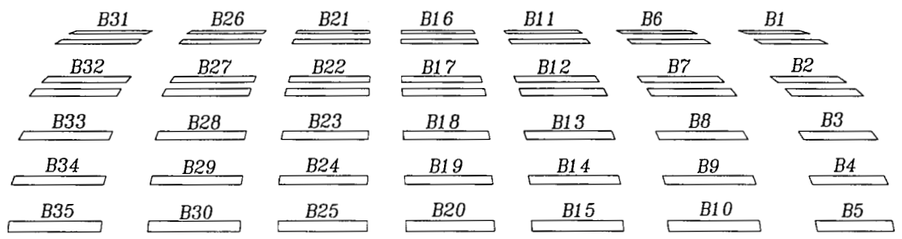
FL (HNA – 11MM34) GRID ASSIGNMENT / ANODE CONNECTION / PIN CONNECTION

GRID ASSIGNMENT

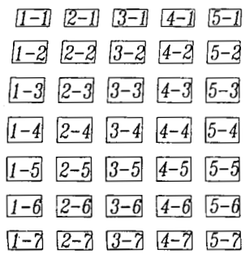




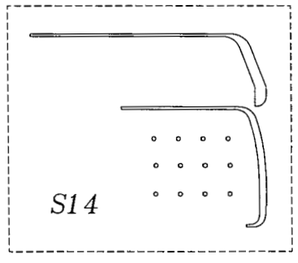
(1G)



(2G)



(3G–10G)



(11G)

ANODE CONNECTION

	1G	2G	3G–10G	11G
P1	S17	B35	1–1	
P2	N1	B30	2–1	MONO
P3	N2	B25	3–1	RANDOM
P4	N3	B20	4–1	
P5	GRAPHIC EQUALIZER	B15	5–1	EDIT
P6		B10	1–2	
P7		B5	2–2	REC
P8		B34	3–2	kHz
P9		B29	4–2	MHz
P10		B24	5–2	○
P11	S4	B19	1–3	A.G
P12	S2	B14	2–3	EON
P13	S10	B9	3–3	RDS
P14	S9	B4	4–3	S14
P15	S3	B33	5–3	20
P16	S12	B28	1–4	19
P17	S11	B23	2–4	18
P18	S1	B18	3–4	17

	1G	2G	3G–10G	11G
P19	S6	B13	4–4	16
P20	S7	B8	5–4	15
P21	S8	B3	1–5	14
P22	S5	B32	2–5	13
P23	S16	B27	3–5	12
P24	M1	B22	4–5	11
P25	M2	B17	5–5	10
P26	M3	B12	1–6	9
P27	e	B7	2–6	8
P28	a, g, d	B2	3–6	7
P29	b	B31	4–6	6
P30	c	B26	5–6	5
P31		B21	1–7	4
P32		B16	2–7	3
P33	2CH DOWNMIX	B11	3–7	2
P34	DOLBY PRO LOGIC	B6	4–7	1
P35	DOLBY DIGITAL	B1	5–7	

PIN CONNECTION

PIN NO	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
CONNECTION	F2	F2	NP	NP	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NC	NC	NC	NC	NC	NC	NC	NC	P35	P34	P33	P32	P31	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12

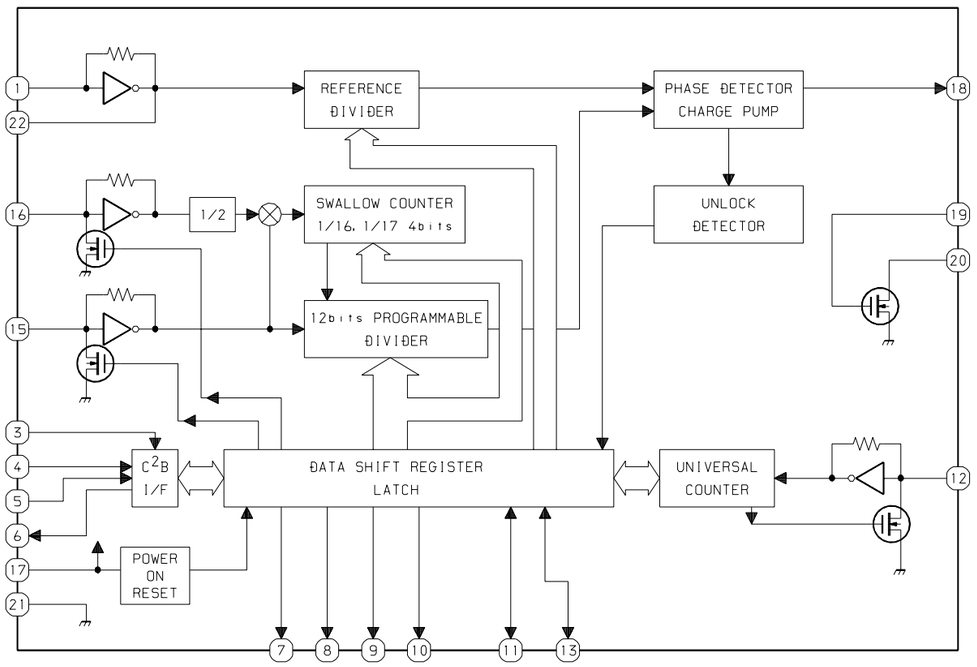
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F1	F1

◉ Notes ◉

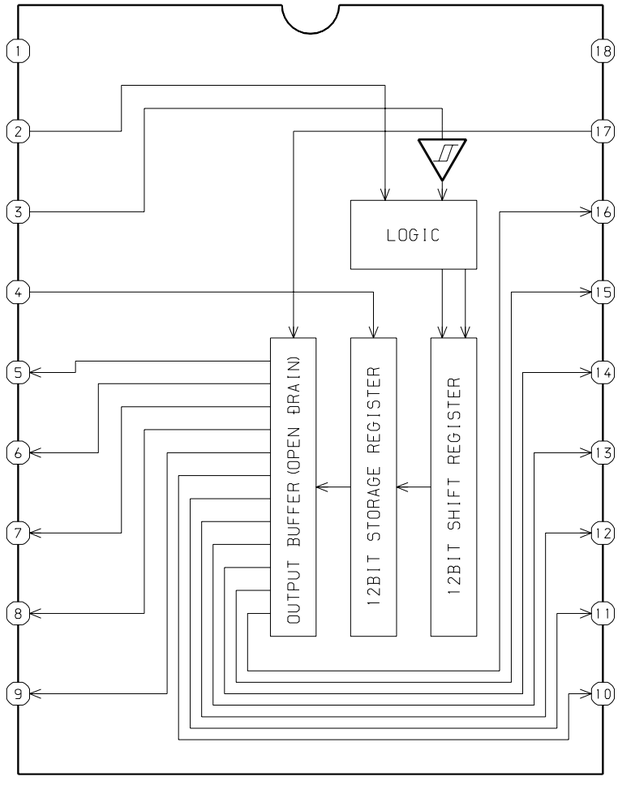
1) Fn : Filament pin
2) nG : Grid pin
3) Pn : Anode pin
4) NC : No Connected pin
5) NP : No pin

IC BLOCK DIAGRAM

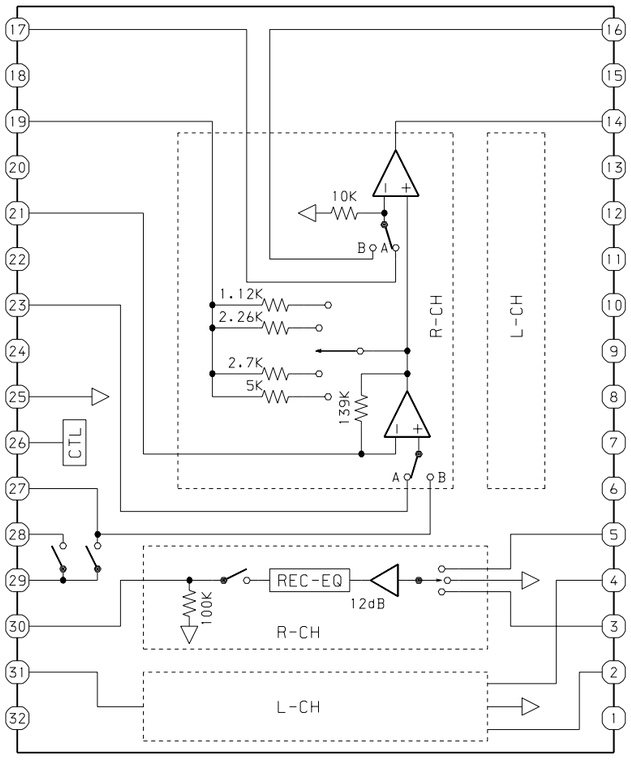
IC, LC72131Đ



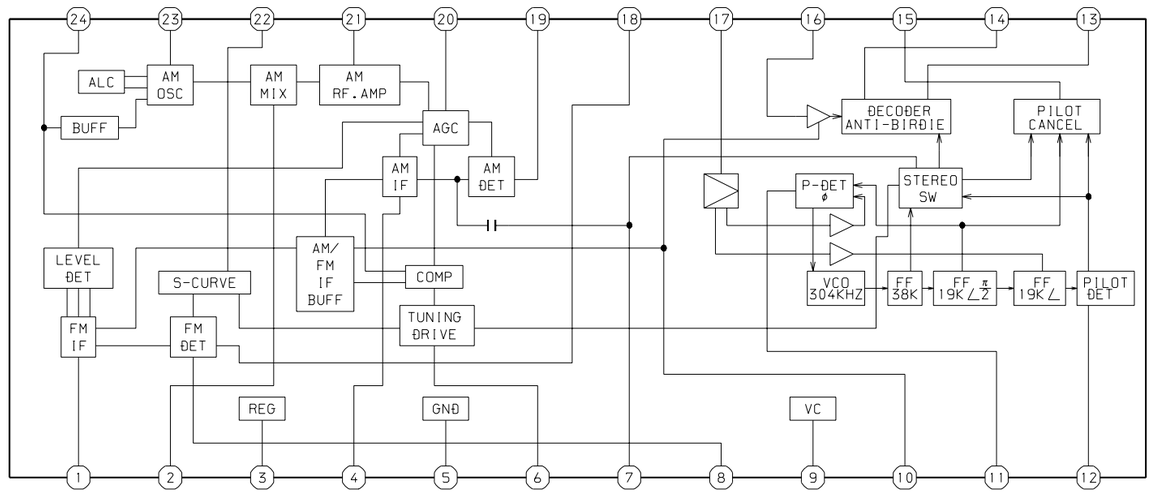
IC, BU2092F



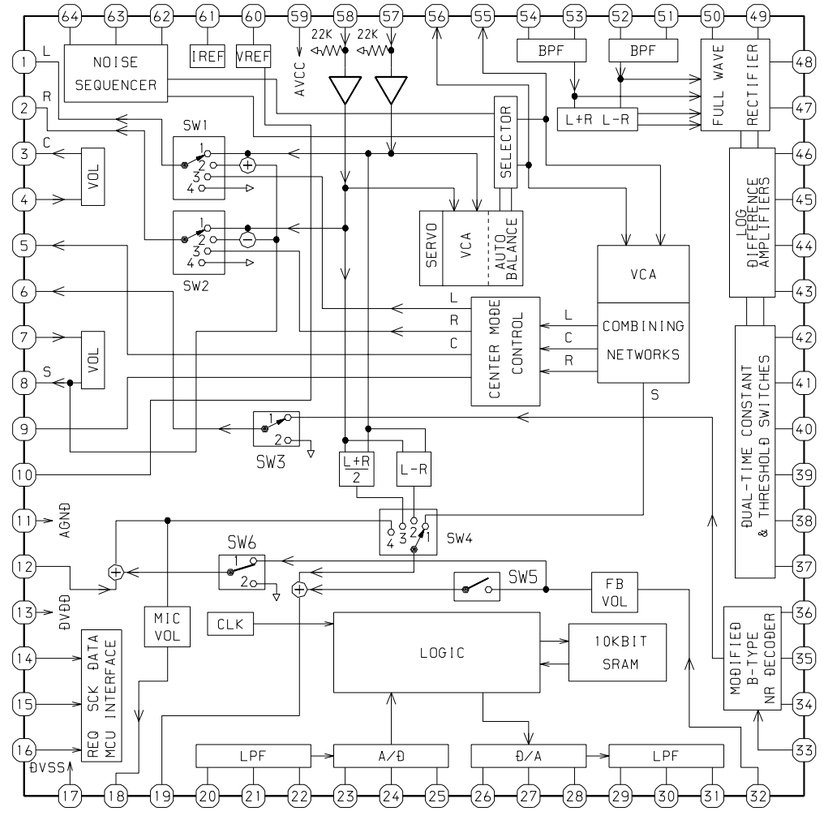
IC, BA7762AFS



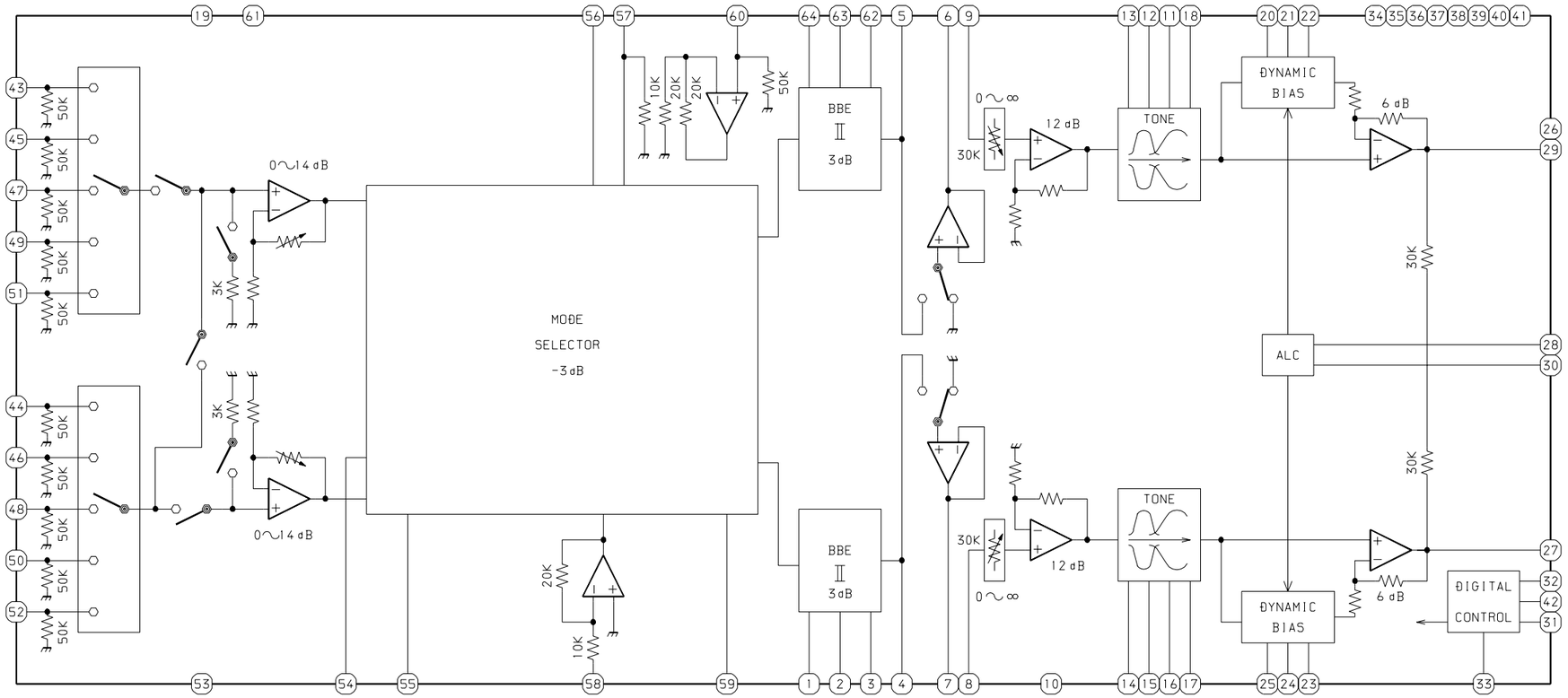
IC, LA1844L-A



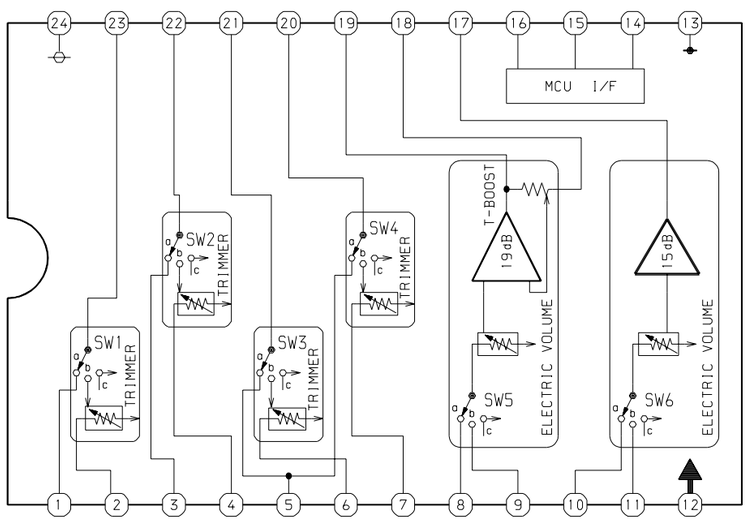
IC, M62463AFP



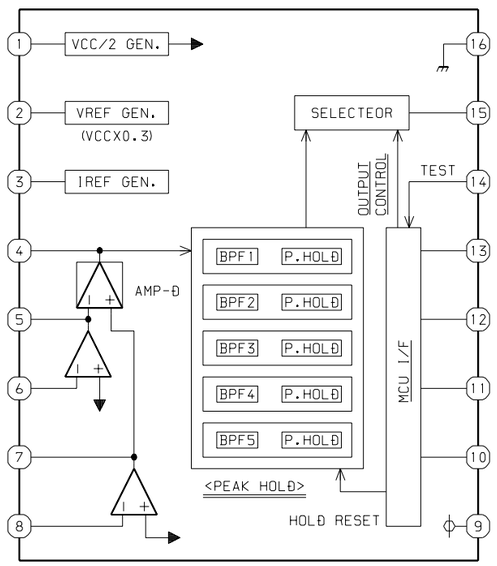
IC, BD3876KS2



IC, M62491FP



IC, M61506FP



IC DESCRIPTION

IC, LC87F65C8G-SAN1

Pin No.	Pin Name	I/O	Description
1	I-$\overline{\text{STEREO}}$	I	Tuner stereo signal input.
2	I-$\overline{\text{IFC}}$	I	Tuner IF count serial data input.
3	NC	–	Not connected.
4	O-POWER	O	Power ON/OFF output.
5	I-$\overline{\text{HP-MUTE}}$	I	Headphone insert detection input.
6	O-DATA(M)	O	IC control serial data output.
7	O-STB(M)	O	Main strobe output.
8	O-MUTE	O	Mute signal output.
9	O-STB(SHIFT)	O	Latch strobe output for Front shift register.
10	O-$\overline{\text{CLK-SHIFT}}$	O	Micon clock shifts control output.
11	$\overline{\text{RESET}}$	I	Reset input.
12	NC	–	Not connected.
13	I-DISH	I	DVD turntable photo sensor.
14	VSS1	–	GND.
15	CF1	I	Oscillator input for system clock (9.43MHz).
16	CF2	O	Oscillator output for system clock (9.43MHz).
17	VDD1	–	Power supply.
18	I-$\overline{\text{HOLD}}$	I	Power failure detection input.
19 ~ 21	I-KEY1 ~ 3	I	Tact key 1 ~ 3 input.
22	I-TU-SIG / I-$\overline{\text{MS}}$	I	Tuner signal input / Music sensor signal input.
23	I-MECHASW	I	DVD Mecha detect switch.
24	I-SPEANA	I	Spectrum analyzer signal input.
25	NC	–	Not connected.
26	I-RE-VOL	I	Rotary encoder volume input.
27	I-RDS-CLK	I	RDS clock input. (Not used)
28	I-TM-BASE	I	Reference signal for clock.
29	I-$\overline{\text{RMC}}$	I	Remote control signal input.
30 ~ 40	G11 ~ G1	O	FL grid output.
41	NC	–	Not connected.
42 ~ 45	P35 ~ P32	O	FL segment output.
46	VDD3	–	Power supply.
47 ~ 48	P31 ~ P30	O	FL segment output.
49	P29 / O-SPEANA-C	O	FL segment output / Spectrum analyzer signal output C.
50	P28 / O-SPEANA-B	O	FL segment output / Spectrum analyzer signal output B.
51	–VFL	–	Power supply for FL input.
52	P27 / O-SPEANA-A	O	FL segment output / Spectrum analyzer signal output A.
53	P26	O	FL segment output.
54	P25 / I-NO-CASINO	O/I	FL segment output / NO-CASINO initial diode setting input.
55	P34 / I-KARAOKE	O/I	FL segment output / KARAOKE initial diode setting input.
56	P23 / NO-DEMO	O/I	FL segment output / NO-DEMO initial diode setting input (not used).
57	P22 / AC-3	O/I	FL segment output / AC-3 initial diode setting input.

Pin No.	Pin Name	I/O	Description
58	P21 / RDS	O/I	FL segment output / RDS initial diode setting input (not used).
59	P20 / FM1	O/I	FL segment output / FM1 initial diode setting input (not used).
60	P19 / SW	O/I	FL segment output / SW initial diode setting input (not used).
61	P18 / LW	O/I	FL segment output / LW initial diode setting input (not used).
62	P17 / AMST	O/I	FL segment output / AMST initial diode setting input (not used).
63	P16 / AM10K	O/I	FL segment output / AM10K initial diode setting input.
64	P15 / I-$\overline{\text{CST2}}$	O/I	FL segment output / Deck 2 cassette detect switch data input.
65	P14 / I-$\overline{\text{REB}}$	O/I	FL segment output / Deck 2 side-B record switch data input (not used).
66	P13 / I-$\overline{\text{CAM2}}$	O/I	FL segment output / Deck 2 cam switch data input.
67	P12 / I-$\overline{\text{AUTO1}}$	O/I	FL segment output / Deck 1 auto stop switch data input.
68	P11 / I-$\overline{\text{AUTO2}}$	O/I	FL segment output / Deck 2 auto stop switch data input.
69	P10 / I-$\overline{\text{CAM1}}$	O/I	FL segment output / Deck 1 cam switch data input.
70	P9 / I-$\overline{\text{CST1}}$	O/I	FL segment output / Deck 1 cassette detect switch data input.
71	P8 / I-$\overline{\text{REA}}$	O/I	FL segment output / Deck 2 side-A record switch data input.
72	VDD4	–	Power supply.
73	P7 / I-REV2	O/I	FL segment output / Deck 2 reverse switch data input (not used).
74	P6 / I-REV1	O/I	FL segment output / Deck 1 reverse switch data input (not used).
75	P5 / NO-ECO	O/I	FL segment output / NO-ECO initial diode setting input (not used).
76 ~ 79	P4 ~ P1	O	FL segment output.
80	O-DVD-CLOSE	O	DVD tray close output.
81	O-DVD-OPEN	O	DVD tray open output.
82	I-DATA-TO-HOST	I	Input data from DVD to HOST.
83	I-JOGA	I	Rotary encoder input A.
84	I-JOGB	I	Rotary encoder input B.
85	O-DISH-FWD	O	DVD turntable forward rotation output.
86	O-DISH-REV	O	DVD turntable reverses rotation output.
87	O-PLLCE	O	Tuner PLL IC controls chip enable output.
88	O-KSCAN	O	Key scan output.
89	VSS2	–	GND.
90	VDD2	–	Power supply.
91	$\overline{\text{LED-STBY}}$	O	Standby LED $\overline{\text{ON}}$/OFF output.
92	O-$\overline{\text{MOTOR}}$	O	Deck motor ON/OFF output.
93	O-$\overline{\text{SOL1}}$	O	Deck 1 solenoid output.
94	O-$\overline{\text{SOL2}}$	O	Deck 2 solenoid output.
95	O-DATA-TO-BE	O	Output data from HOST to DVD.
96	O-DVD-LED	O	Not used.
97	O-DVD-CLK	O	DVD clock output.
98	I/O-BUSY	O	DVD busy input/output.
99	I-RDS-DATA	I	RDS data input. (Not used)
100	O-PLL-CLK	O	Tuner PLL IC controls chip enable data output.

IC, LC72131D

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>X-IN</td><td>I</td><td rowspan="2">A crystal oscillator (4.5MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>X-OUT</td><td>O</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC87F65C8G-SAN1) when relevant key is operated.
Active "H".</td></tr>
<tr><td>5</td><td>CL</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC87F65C8G-SAN1).</td></tr>
<tr><td>7</td><td>T-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / $\overline{\text{SW}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$ / SW</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IF-IN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>TUNE</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not connected.</td></tr>
<tr><td>15</td><td>AM-IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-IN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>A-IN</td><td>I</td><td rowspan="2">The MOS transistor used for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>A-OUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

ADJUSTMENT – 1 <TUNER / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz and check that the test point is less than 8.5V. Then set to AM 530kHz and check that the test point is more than 0.6V.

3. AM Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L951(1/3)
   Method : Set to AM 1000kHz and adjust L951(1/3) so that the test point becomes maximum.

4. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L802 ..... 450kHz

5. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz check that the test point is more than 0.5V. Then set to FM 108.0MHz and check that the test point is less than 8.0V.

6. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9dBμV.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 300mV with distortion less than 1.3%.

8. Output Level Check
   <AM>
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 74dBμV
   Method : Set to AM 1000kHz and check that the test point is 74mV ± 3dB.

   <FM>
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and check that the test point is 320mV ± 3dB.

9. FM Separation Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

< FRONT SECTION >

10. μ-CON Clock Adjustment
    Settings : • Test point : TP10 (K-SCAN)
    TP11 (GND)
    • Adjustment location : L331
    Method : Insert AC plug while pressing of "POWER" key and "TUNER" function key.
    Connect a frequency counter across TP10 and TP11.
    Then adjust L331 so that the test point becomes 318.80Hz ± 0.32Hz.
    [Manual Reset]
    Make up for RESET after adjustment.
    * Reset is to press "POWER" key while pressing of "CLEAR (STOP)" key.

ADJUSTMENT – 2 <DECK>

< DECK SECTION >

1. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the test point becomes 3000Hz ± 5Hz (FWD) and FWD SPEED ± 45Hz (REV).

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB ± 5dB.

4. PB Sensitivity Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–200
   • Test point : TP8 (Lch), TP9 (Rch)
   Method : Play back the test tape and check that the output level of the test point is 230mV ± 3dB.

5. REC/PB Frequency Response Adjustment (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 1kHz / 8kHz (–20VU)
   • Adjustment location : SFR351 (Lch) SFR352 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 10mV. Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

6. REC/PB Sensitivity Check (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 1kHz (0VU)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 100mV. Record and play back the 1kHz signals and check that the output is –2dB ± 3dB.

DVD TEST MODE

1. How to Activate DVD Test Mode
   Insert the AC plug, while pressing the DVD/CD/VCD function button.
   All the indicators on the FL display tube will light up, and the test mode will be activated.

2. How to Cancel DVD Test Mode
   Either one of the following operations will cancel the DVD test mode.
   - Disconnect the AC plug.
   - Press any function button. (Except DVD/CD/VCD function button)
   - Press the POWER button.

3. DVD Test Mode Functions
   - Status indication and media indication
     After the DVD test mode is activated, "S**M**" will display on the FL display tube.
     S** indicates the status.

Status indication	Contents
S41	Status that pickup stops at the inner circumference
S42	Status that pickup stops at the inner circumterence with resume data
S43	PLAY status
S44	PAUSE status
S45	SKIP status
S46	TOC is being read
S47	Signal of EEPROM writing end
S48	Status in which status is not determined yet
S49	Signal of DISC END

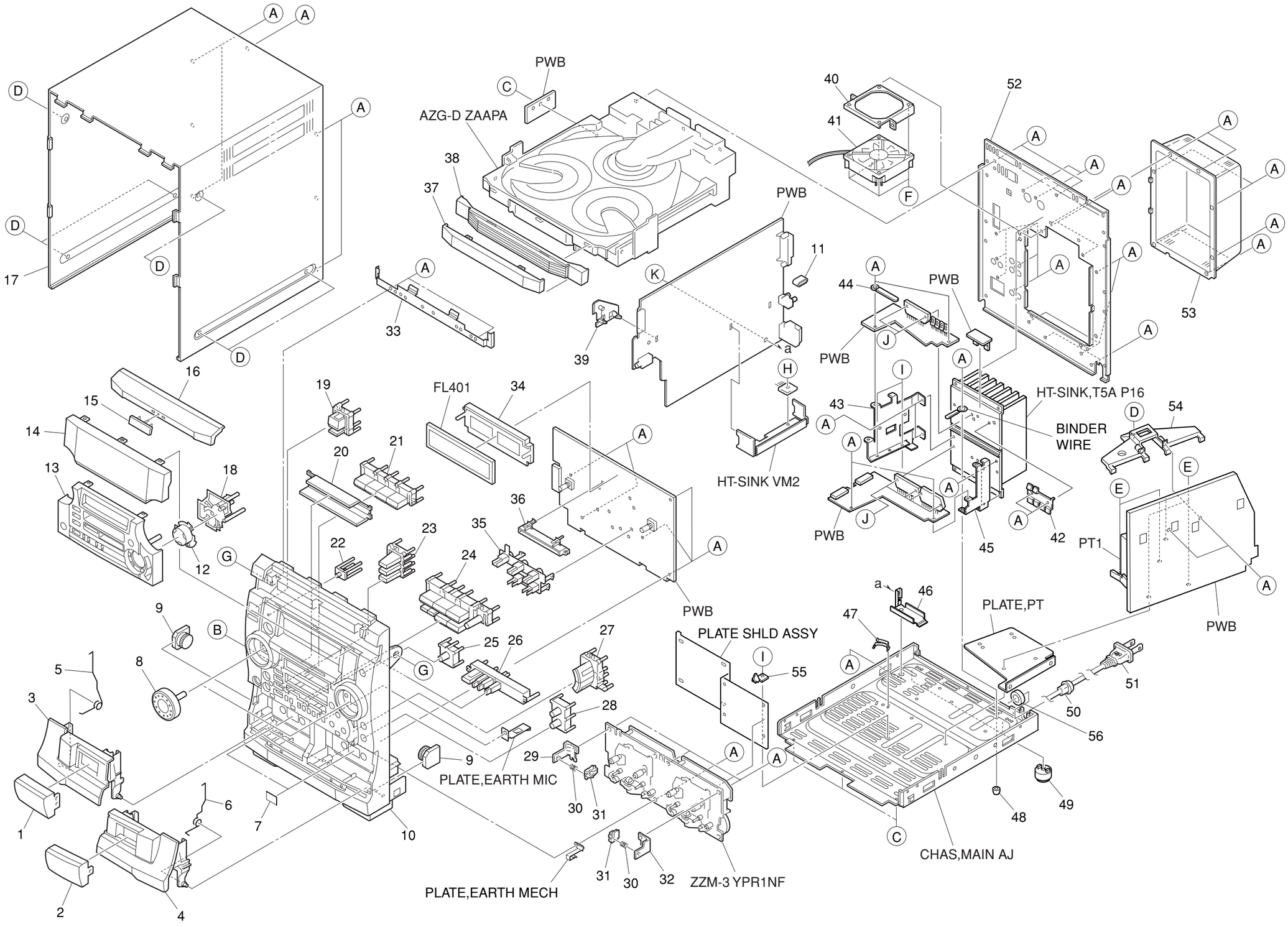
M** indicates the type of media.

Media indication	Contents
M21	NO DISC
M22	CD-DA
M23	VCD (Ver1.0 or Ver1.1)
M24	VCD (Ver2.0)
M25	DVD

When status (numeric) other than the above are displayed, all the data is invalid.
Display example:
The display shown below means the following.
S41 STOP
M25 DVD

- Normal indication
  The normal indication appears, as long as the DVD/CD/VCD button is being pressed during starting up of the DVD test mode.

MECHANICAL EXPLODED VIEW 1 / 1



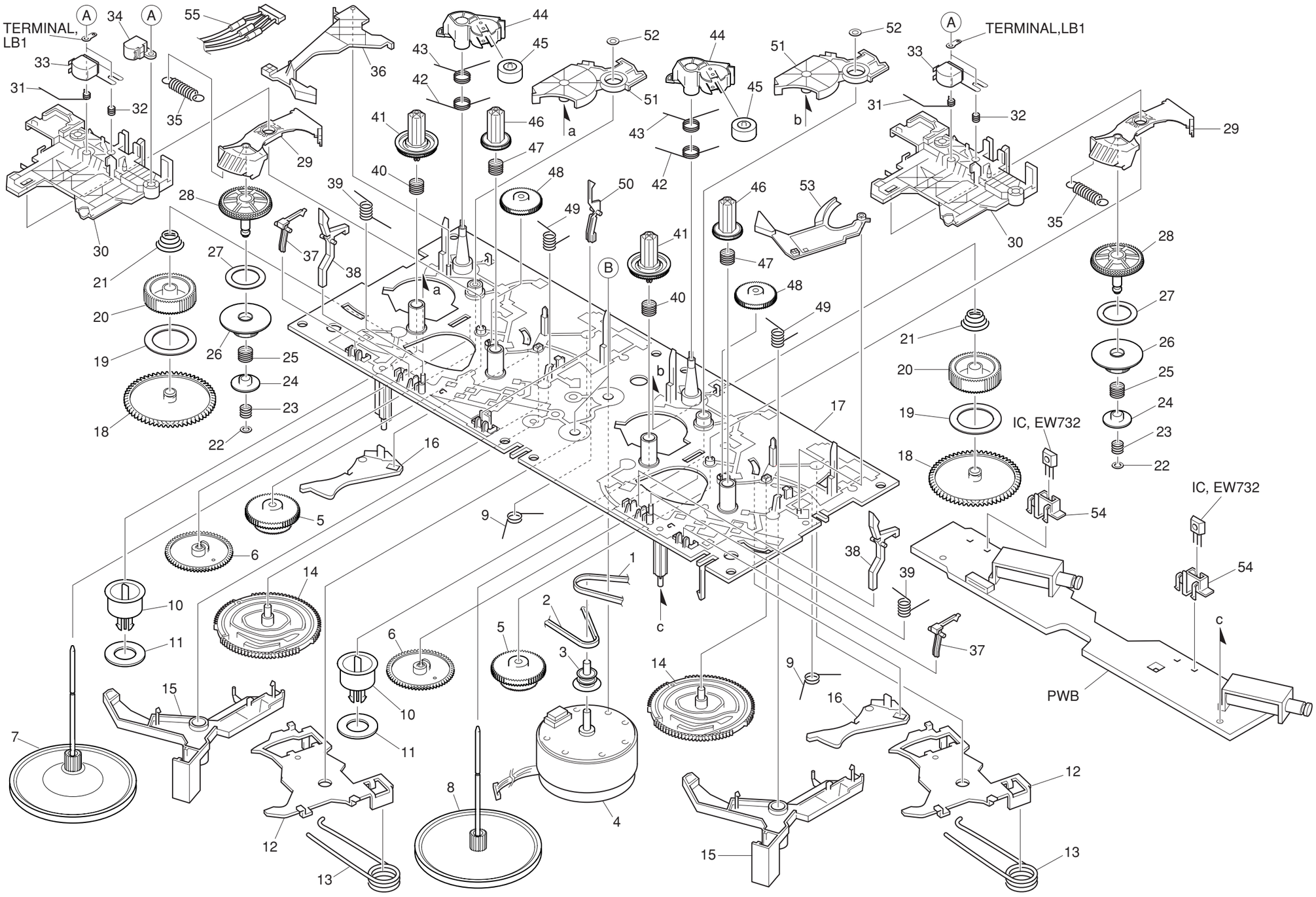
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF8-014-010		WINDOW,CASS 1
2	8A-NF8-015-010		WINDOW,CASS 2
3	8A-DJV-032-010		BOX,CASS 1 U
4	8A-DJV-033-010		BOX,CASS 2 U
5	8A-NF8-207-010		SPR-T,EJECT 1
6	8A-NF8-208-010		SPR-T,EJECT 2
7	81-532-080-010		LABEL, CASS. COMPT
8	8A-NF8-019-010		KNOB,RTRY JOG
9	8A-NF8-209-010		OIL-DMPR,120
10	8A-DJV-001-010		CABI,FR U
11	87-A90-762-010		F-BEAD,3407 MFT
12	8A-NF8-032-010		CAP, DISC
13	8A-DJV-015-010		PANEL,FR U
14	8A-DJV-004-010		WINDOW,DISP U
15	87-CE3-023-010		BADGE,AIWA 30N SILV
16	8A-DJV-034-010		PANEL,CD
17	8A-DJV-003-010		CABI,STEEEL
18	8A-NF8-031-210		KEY,DISC
19	8A-NF8-016-010		KEY,POWER
20	8A-NF8-018-110		REFLECTOR,FUN
21	8A-DJV-005-010		KEY,FUN DVD
22	8A-NF8-017-010		REFLECTOR,ECO
23	8A-NF8-022-010		KEY,GEQ
24	8A-NF8-035-110		KEY,ASSY OPE 1WAY
25	8A-NFV-006-010		KEY,PRO
26	8A-DJV-018-010		KEY,CD EDIT U
27	8A-DJV-031-010		KEY,OPEN
28	8A-NFV-005-010		KEY,MIC
29	87-NF4-216-010		HLDR,LOCK 1
30	86-NF9-224-010		SPR-C,LOCK
31	82-NF5-229-010		PLATE,LOCK
32	87-NF4-217-110		HLDR,LOCK 2
33	8A-DJV-204-010		HLDR,STCB 2
34	88-NF8-205-010		GUIDE,FL
35	8A-NF8-202-010		GUIDE,OPE 1WAY
36	8A-NF8-201-010		GUIDE,FUN
37	8A-DJV-006-010		WINDOW,TRAY DVD
38	8A-NF8-010-010		PANEL,TRAY
39	8A-NF8-206-010		HLDR,PWB M
40	8A-DJV-201-010		HLDR,FAN
41	87-A91-751-010		FAN,DSB0812M-S382 -400MM
42	8A-NF6-210-110		HLDR,IC6
43	8A-NF7-207-010		HLDR,HT L
44	87-064-185-010		HLDR,WIRE
45	8A-NF7-208-010		HLDR,HT R
46	8A-NF7-209-010		HLDR,PWB-M BTM
47	87-NF4-221-010		HLDR,CABLE
48	8Z-NB8-254-010		COVER, PL M3
49	87-085-221-010		FOOT,H13.5
50	87-085-189-010		BUSHING, CORD (U)
⚠ 51	87-A80-110-010		AC CORD ASSY,U SPT-2W
52	8A-DJV-002-110		PANEL,REAR US
53	8A-DJV-059-110		COVER, REAR ST US
54	8A-NF6-228-010		HLDR,PWB PT 96-75
55	8A-NFW-250-110		HLDR,PLATE
56	87-A90-457-010		F-BEAD,15-25-15 E251
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-723-096-410		QT2+3-10W/O SLOT BL
C	87-067-688-010		BVTT+3-6
D	87-067-641-010		UTT2+3-8(W/O SLOT)BL
E	87-078-191-010		S-SCREW,IT+4-10
F	87-067-689-010		TAPPING SCREW, BVTT+3-8
G	87-721-097-410		QT2+3-12 GLD
H	87-067-001-010		S-SCREW BVWWST2+3-12
I	87-067-584-010		TAPPING SCREW, BVT2+3-6
J	87-067-581-010		TAPPING SCREW, BVT2+3-15
K	87-NF4-224-010		S-SCREW,IT3B+3-8 CU

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue				

TAPE MECHANISM EXPLODED VIEW 1 / 1



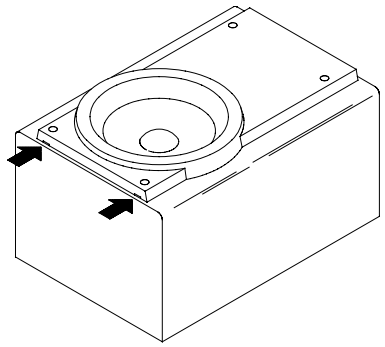
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT,MAIN M3
2	8Z-ZM3-235-010		BELT,MAIN L
3	8Z-ZM1-235-010		PULLEY,MOT
4	87-045-347-010		MOT,SHU2L 70
5	8Z-ZM1-232-010		GEAR,IDL FF/REW
6	8Z-ZM3-244-010		GEAR,CAM TD20
7	8Z-ZM3-256-010		FLY-WHL ASSY,M3 R
8	8Z-ZM3-255-010		FLY-WHL ASSY,M3 L
9	8Z-ZM3-231-010		SPR-T,TRIG
10	8Z-ZM3-213-010		CLR,MG
11	82-ZM3-616-010		RING MAGNET 4
12	8Z-ZM3-243-010		LEVER ASSY,HD UP
13	8Z-ZM3-238-010		SPR-T,HD UP
14	8Z-ZM3-219-010		GEAR,CAM M3
15	8Z-ZM3-206-010		LEVER,TRIG
16	8Z-ZM3-209-010		LEVER,CAM FR
17	8Z-ZM3-203-010		CHAS ASSY,M3
18	8Z-ZM1-228-010		GEAR,SLIP T-UP B
19	8Z-ZM1-265-010		FELT,T-UP
20	8Z-ZM1-227-010		GEAR,SLIP T-UP A
21	8Z-ZM1-251-110		SPR-C,T-UP SLIP
22	8Z-ZM1-275-010		W-L,1,47-4-0.25
23	8Z-ZM1-257-010		SPR-C,F/R
24	8Z-ZM1-236-010		CLR,SLIP FF/REW
25	8Z-ZM3-226-010		SPR-C,FR M3
26	8Z-ZM3-250-010		GEAR,SLIP F/R A M3
27	8Z-ZM1-269-010		FELT,FF/REW 2
28	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
29	8Z-ZM3-220-010		LEVER,FR M3
30	8Z-ZM3-205-010		LEVER,PLAY M3
31	8Z-ZM3-233-010		SPR-T,BRG M3
32	84-ZM2-227-310		SPR-C,AZIMUTH
33	87-A90-403-110		HEAD,RPH MS15R
34	87-A90-404-010		HEAD,EH LE15B
35	8Z-ZM3-239-010		SPR-E,FR
36	8Z-ZM3-211-010		LEVER,EJECT R
37	8Z-ZM3-225-010		LEVER,STOP
38	8Z-ZM3-221-010		LEVER,CAS
39	8Z-ZM3-234-010		SPR-T,LVR CAS
40	8Z-ZM3-223-010		SPR-C,REEL R M3
41	8Z-ZM1-225-110		GEAR,REEL R
42	8Z-ZM3-240-010		SPR-T,T-UP M3
43	8Z-ZM3-237-010		SPR-T,PINCH M3
44	8Z-ZM3-215-010		LEVER,PINCH M3
45	8Z-ZM1-261-110		ROLLER ASSY,PINCH
46	8Z-ZM1-226-010		GEAR,REEL L
47	8Z-ZM3-222-010		SPR-C,REEL L M3
48	8Z-ZM3-251-010		GEAR,IDL REW M3
49	8Z-ZM3-236-010		SPR-T,PLAY M3
50	82-ZM1-240-110		LVR,REC(*)
51	8Z-ZM3-216-010		LEVER,T-UP M3
52	87-B10-301-010		W-L,1.63-3.2-05 SLIT
53	8Z-ZM3-212-010		LEVER,EJECT L
54	8Z-ZM3-214-010		HLDR,IC
55	86-ZM3-605-110		CONN ASSY,8P -RPB
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM2-220-110		V+2.6 ZZM-2

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

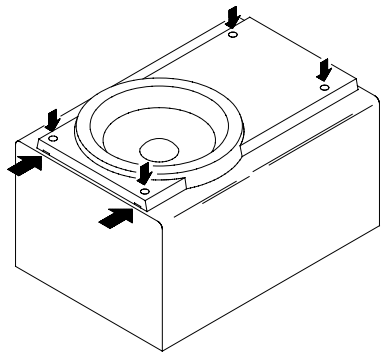
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



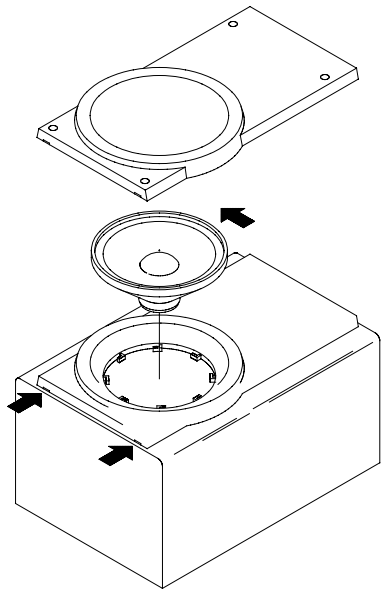
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

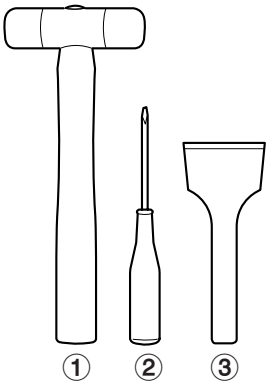


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

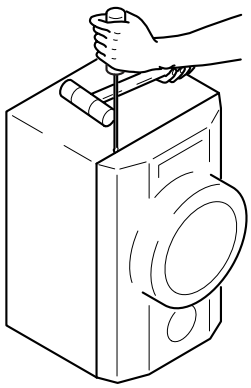


Fig-1

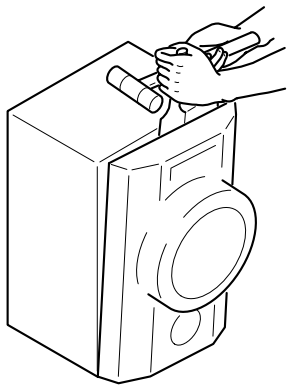


Fig-2

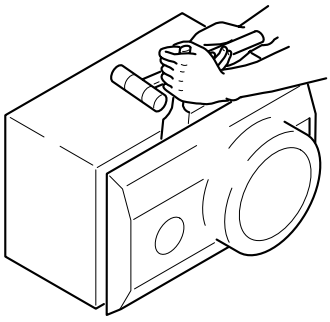


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST
(SX–WNDV526) <YUSL>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NS8-009-010		PANEL,FR U
2	8A-DS8-004-010		PANEL,DUCT
3	8A-NS8-006-010		GRILLE,FRAME ASSY U
4	8Z-NS7-602-010		SPKR,W 160
5	8Z-NSY-604-010		SPKR,M 100
6	8Z-NSY-608-010		SPKR,CERAMIC ASSY
7	88-NS5-610-010		CORD,SPKR
8	88-NS5-611-010		CORD,SPKR B/L
9	8Z-NSY-003-010		CORD,BUSH
10	88-NS3-029-010		CORD,BUSH L
11	8A-DS8-009-010		PROTECTOR,

SPEAKER PARTS LIST
(SX–R275) <YUSTNC, YUSTNL, YUSTNP>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS6-601-010		SPKR,100
2	87-YS6-002-010		SPKR,CORD Y
3	87-YS1-001-010		CABI,REAR
4	87-YS1-004-010		GRILLE,FRAME ASSY
5	81-VSA-009-010		CORD,BUSH
6	87-010-384-010		CAP,E 100-25 M SME
7	87-YS6-903-010		IB,YU(ESF)O<YUSTNC>
7	87-YS6-904-010		IB,YU(ESF)P<YUSTNP>
7	87-YS6-913-010		IB,YU(ESP)T<YUSTNL>

SPEAKER PARTS LIST
(SX–C605) <YUSTNC, YUSTNL>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS3-001-010		PANEL,FR ST
2	87-YS3-002-010		PANEL,REAR ST
3	87-YS3-003-010		GRILLE,FRAME ASSY
4	87-YS7-602-010		SPKR,100<YUSTNC>
4	87-YS7-604-010		SPKR,100<YUSTNL>
5	83-NSM-010-010		SPKR,CORD
6	81-VSA-009-010		CORD,BUSH
7	87-YS7-903-010		IB,YU(ESF)O

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-DJV-903-010		IB,U(ESF)I
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT,FEEDER FM
4	87-050-103-010		CORD,PIN 1PY1.5M
5	8A-DJV-701-010		RC UNIT,RC-AAS03

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

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